

Right Tapes. Right System. Right Partner.



3M Packaging Solutions Guide
January, 2015



At 3M, we never forget our success was sealed by a roll of tape.

A single inventive way of solving a customer's problem more than 85 years ago led to a breakthrough that became known as **"Scotch® Tape"; an invention that changed the world.** Today, the curious minds at 3M continue to maintain the legacy of the original Scotch® Tape by meeting customer needs everyday and never compromising on performance.

Reliable performance proven over time has formed a bond of trust with Scotch® Tape. This is why it remains the number one brand for packaging, bundling, reinforcing solutions and more. At 3M, Scotch® Tape isn't "just tape." It's the crown jewel which built our reputation for uncompromising quality and innovation. We stake our reputation on delivering the very best, most reliable tapes every day so you can trust Scotch® Tape to protect your reputation, as well.

You can double down on dependability by combining Scotch® Box Sealing Tapes with 3M-Matic™ Case Sealers. With nearly a half-century of experience in building case sealing equipment, 3M delivers the "total package" in packaging systems.

In a world where so many unexpected events can impact your results, Scotch® Tapes and 3M packaging solutions have got you covered — with dependable, high quality products and systems to meet your ever-changing requirements.

RIGHT RIGHT
TAPES. SYSTEM.
RIGHT PARTNER.

3M

Scotch

3M-Matic
Case Sealing Systems

The most trusted names in packaging systems

3M Packaging Solutions



Table of Contents

Packaging Equipment and Dispensers

| | |
|---|-------|
| 3M-Matic™ Case Sealers Selection Overview..... | 5–7 |
| 3M-Matic™ Adjustable Case Sealers | 8–9 |
| 3M-Matic™ Random Case Sealers | 10 |
| 3M™ AccuGlide™ Taping Head Technology | 11 |
| Customized 3M-Matic™ Equipment..... | 11 |
| Non-RSC Closure Solutions..... | 12 |
| 3M-Matic™ Case Sealers Replacement Parts and Accessories..... | 13 |
| Scotch® Tape Dispensers | 14–15 |
| 3M Systems Tape Agreement | 16 |

Box Sealing Tapes

| | |
|---|-------|
| Scotch® and Tartan™ Box Sealing Tapes | 18–20 |
| Scotch® Box Sealing Tapes | 20 |
| Scotch® Recycled Corrugate Tapes..... | 20 |
| Tartan™ Box Sealing Tapes..... | 20 |
| Scotch® Specialty Box Sealing Tapes..... | 21 |
| Cold Temperature Tapes | 21 |
| Custom Printed Tapes..... | 21 |
| Security Tapes | 21 |
| Water Activated Tapes | 21 |
| Light Duty Packaging Tapes..... | 22–23 |

High Strength Tapes

| | |
|--|-------|
| High Strength Tapes Overview..... | 25 |
| High Strength Filament Tapes | 26–27 |
| Scotch® Reinforced Strapping Tapes | 28 |
| Tensilized Polypropylene Tapes | 29 |
| Scotch® Stretchable Tapes | 30 |

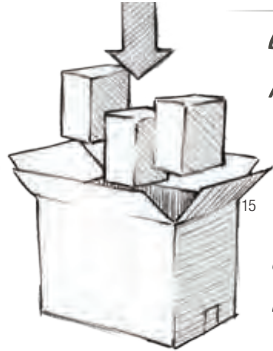
Custom Packaging Solutions

| | |
|--|----|
| 3M™ Carry Handles..... | 32 |
| Scotch® Multipack Tapes..... | 33 |
| Bag Sealing Tapes..... | 34 |
| 3M™ Tape Pads | 34 |
| 3M™ Marking and Identification Tags..... | 35 |
| 3M™ Hang Tabs..... | 35 |
| Scotch® Pouch Tapes | 36 |
| Label Protection Tapes | 36 |
| 3M™ Packing List Envelopes..... | 37 |
| Scotch® Tear Strip Tapes | 38 |
| Scotch® Bag Conveying Tapes | 38 |
| Remote Sensing Tapes | 39 |

| | |
|----------------|-------|
| Glossary | 40–41 |
|----------------|-------|

| | |
|----------------------|-------|
| Numerical Index..... | 42–43 |
|----------------------|-------|

| | |
|--------------------------|-------|
| Product Name Index | 44–45 |
|--------------------------|-------|



ERECTING & PACKING

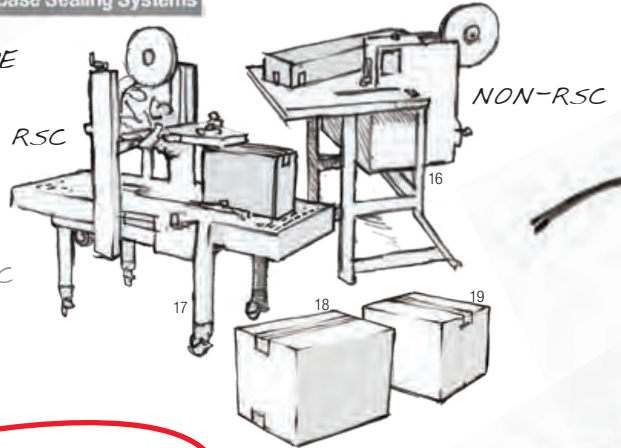
CASE ERECTORS
ERGO PACKS

THROUGHPUT & SPEED



CONSISTENCY
SECURITY
PROTECTION

3M™ ACCUGLIDE™ TAPE
HEAD TECHNOLOGY



SEALING

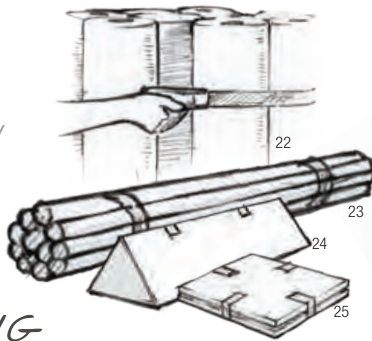
SEMI-AUTOMATIC
HAND APPLIED
BAG SEALING



RECYCLED
CORRUGATE?
NO PROBLEM!



PROTECTION
CONTROL
SECURITY



BUNDLING

L-CLIP CLOSURE

TECH SUPPORT
BEFORE &
AFTER THE SALE

PACKING STATIONS



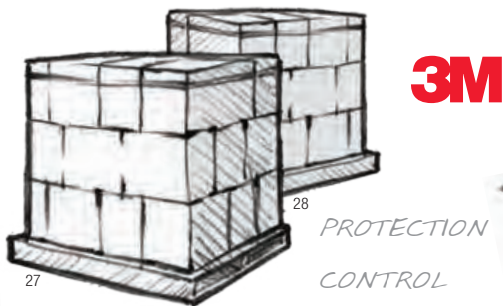
LABELING
EASE OF USE

DOCUMENT
ATTACHMENT
LABEL PROTECTION
PATCHING



The Total Package

Pack it. Close it. Move it. Sell it. Use it.



PROTECTION
CONTROL

PALLET UNITIZING



SHIPPING &
WAREHOUSING

IDENTIFICATION
SECURITY



DELIVER IT TO
THE CUSTOMER



MULTIPACK

PROMOTIONS
EASY OPEN

BRANDING

CUSTOM
SOLUTIONS

DISPLAY

AWARENESS



3M

Packaging Equipment and Dispensers

CONSISTENT.
Reliable.
Tough.

Now, better than ever.

The end of your production line is no place for bottlenecks. That's why rock-solid dependability is the most important attribute of a case sealer. 3M-Matic™ Case Sealers have been setting the bar for consistent and reliable case sealing for more than 45 years. There's a 3M-Matic™ Case Sealer for virtually any packaging requirements in any size operation. You can count on it.



3M-Matic™ Case Sealer

Things to Consider When Selecting a Case Sealer

- 1** Do you pre-form your boxes?
What style box do you use?
- RSC (regular slotted carton)
 - FPF (five panel fold)
 - Full overlap

- 2** How many boxes do you seal per day?

- 3** What closure method do you use?
- RGT (reinforced gum tape)
 - Pressure-sensitive box sealing tape
 - Glue
 - Staples

- 4** Do you seal your boxes in uniform or random production runs?

3M-Matic™ Case Sealers Selection Overview



For Sealing Uniform Size Boxes

Manually Adjustable, Semi-Automatic

Affordable for Low Volume



40

a20

Up to 30 cs/min
Up to 65 lbs
Bottom belt drive



41

a80*

Up to 30 cs/min
Up to 65 lbs
Side belt drives

Engineered for High Volume



43

200a*

Up to 40 cs/min
Up to 85 lbs
Bottom belt drive



44

800ab

Narrow cases
Bottom only taping
Up to 40 cs/min
Up to 85 lbs
Side belt drives



45

800asb

Small cases
Up to 28 cs/min
Up to 85 lbs
Side belt drives



46

7000a Pro

Up to 40 cs/min
Up to 85 lbs
Top and bottom belt drives



47

8000a

Up to 40 cs/min
Up to 85 lbs
Side belt drives

Manually Adjustable, Semi-Automatic



42

a80f

Up to 30 cs/min
Up to 65 lbs
Side belt drives



36

800af

Up to 40 cs/min
Up to 85 lbs
Side belt drives

Case Former



48

700cf

3M-Matic™ Case Former and Sealer 700cf is an adjustable top and bottom belt drive case sealer with an integrated case former to form, pack and seal up to 15 cs/min.

*Available with 3 in. taping head



For Sealing Various Sized Boxes

Self Adjusting, Semi-Automatic



800r*
 Up to 20 cs/min
 Up to 85 lbs
 Side belt drives



800rks†
 Up to 10 cs/min
 Up to 200 lbs
 Top and bottom side belt drives



7000r Pro
 Up to 24 cs/min
 Up to 85 lbs
 Top and bottom belt drives

Self Adjusting Fully-Automatic Flap Folding



800rf*
 Up to 10 cs/min
 Up to 85 lbs
 Side belt drives

Non-RSC Box



S867
 3M-Matic™ L-Clip Applicator S867 is a semi-automatic unit that applies 4.5 in. L-Clips of Scotch® Filament Tapes and Scotch® Box Sealing Tapes at up to 50 clips/min.

*Available with 3 in. taping head
 †Comes standard with 3 in. taping head

3M-Matic Helpline: 1-800-328-1390

When you have a question, simply call the toll-free helpline, open to take your calls Monday through Friday, 8:00am to 4:30pm Eastern Standard Time. Messages will be taken 24 hours a day for next working day response.

Belt Drive Key

- 2 = Bottom belt drives
- 7 = Top and bottom belt drives
- 8 = Side belt drives

Box Type

- a = Adjustable, for batch runs
- r = Random, for mixed runs

Additional Capability

- b = Bottom only
- f = Flap folding
- ks = King size
- sb = Small box

3M-Matic™ Adjustable Case Sealers



Productivity with Quick Height and Width Adjustments

With quick manual adjustment, these rugged units reliably and accurately seal runs of the same size cartons for a variety of markets: food and beverage, medical devices, pharmaceutical, electronics, retail, manufacturing and distribution centers.



a20 40
3M-Matic™ Adjustable Case Sealer a20 is an adjustable bottom belt drive case sealer to dependably seal uniform cases at up to 30 per minute.



200a 43
3M-Matic™ Case Sealer 200a is an adjustable bottom belt drive case sealer to dependably seal uniform cases at up to 40 per minute.



700a-s 53
3M-Matic™ Adjustable Case Sealer 700a-s stainless steel has advanced features to seal uniform cases up to 30 per minute. Dual masts with dual lead screws for stability and uniform height adjustments. Adjustable top and bottom belt drive system for reliable conveyance of heavier or tall/light boxes. Compression rollers position each box for precise tape sealing. Stainless construction for corrosive environments.



7000a Pro 46
3M-Matic™ Adjustable Case Sealer 7000a Pro is an adjustable top and bottom belt drive to dependably seal uniform cases at up to 40 cases per minute.

Bottom Belt Drive Systems

| Machine | Drive System | Box Size Capacity (inches) | | | | | | Power Requirements | | Operating Rate (cs/min) | Belt-Drive Speed ft/min (m/s) | Taping Head | Comments |
|---------|--------------|----------------------------|-----|------------|---------|------|-------------|--------------------------|--------|-------------------------|-------------------------------|----------------------|---------------------------|
| | | Minimum | | | Maximum | | | Electrical | Air | | | | |
| | | L | W | H | L | W | H | | | | | | |
| a20 | Bottom | 6.0 | 6.5 | 4.25 [3.5] | N/L | 21.5 | 21.5 | 115VAC 60Hz 2.8A 360W | No Air | Up to 30 | 78 (0,4) | 2" 3M™ AccuGlide™ 2+ | Entry Level |
| a20-s | Bottom | 6.0 | 6.5 | 4.25 [3.5] | N/L | 21.5 | 21.5 | 115VAC 60Hz 2.8A 360W | No Air | Up to 30 | 78 (0,4) | 2" 3M™ AccuGlide™ 2+ | Stainless Steel |
| 200a | Bottom | 6.0 | 6.5 | 4.5 [3.75] | N/L | 21.5 | 24.5 [28.5] | 115VAC 60Hz 1.9A 220W | No Air | Up to 40 | 100 (0,5) | 2" 3M™ AccuGlide™ 3 | Semi-Automatic Adjustable |
| 200a3 | Bottom | 6.0 | 7.5 | 4.5 [3.75] | N/L | 21.5 | 24.5 [28.5] | 115VAC 60Hz 1.9A 220W | No Air | Up to 40 | 100 (0,5) | 3" 3M™ AccuGlide™ 3 | Semi-Automatic Adjustable |

Standard size capabilities are listed above. If additional sizes can be met, they are indicated by [Taping Head] or [Machine Configuration]. Changing the taping head or machine configuration will allow for enhanced box height range indicated in the chart above. Please refer to the Instructions and Parts List or 3M representative for more detail.

Top and Bottom Belt Drive Systems

| Machine | Drive System | Box Size Capacity (inches) | | | | | | Power Requirements | | Operating Rate (cs/min) | Belt-Drive Speed ft/min (m/s) | Taping Head | Comments |
|------------|----------------|----------------------------|-----|------|---------|------|------|--------------------------|--------|-------------------------|-------------------------------|---|--|
| | | Minimum | | | Maximum | | | Electrical | Air | | | | |
| | | L | W | H | L | W | H | | | | | | |
| 700a-s | Top and Bottom | 6.0 | 6.0 | 4.75 | N/L | 21.5 | 24.5 | 115VAC 60Hz 3.8A 440W | No Air | Up to 30 | 78 (0,4) | 2" 3M™ AccuGlide™ 2+ Stainless Steel | For Corrosive Environment |
| 7000a Pro | Top and Bottom | 6.0 | 6.5 | 4.25 | N/L | 26 | 28.0 | 115VAC 60Hz 3.8A 440W | No Air | Up to 40 | 100 (0,5) | 2" 3M™ AccuGlide™ 3 | Extended size capabilities are possible, please contact 3M |
| 7000a3 Pro | Top and Bottom | 6.0 | 6.5 | 4.25 | N/L | 26 | 28.0 | 115VAC 60Hz 3.8A 440W | No Air | Up to 40 | 100 (0,5) | 3" 3M™ AccuGlide™ 3 | |

Standard size capabilities are listed above. If additional sizes can be met, they are indicated by [Taping Head] or [Machine Configuration]. Changing the taping head or machine configuration will allow for enhanced box height range indicated in the chart above. Please refer to the Instructions and Parts List or 3M representative for more detail.



3M-Matic™ Adjustable Case Sealers



a80
3M-Matic™ Adjustable Case Sealer a80 is an adjustable side belt drive case sealer that dependably seals uniform size cases.



8000a
3M-Matic™ Side Belt Adjustable Case Sealer 8000a is an adjustable side belt drive case sealer. Seals up to 40 cases per minute, using tape widths from 36mm to 48mm, and also 72mm tape.



800asb
3M-Matic™ Case Sealer 800asb is an adjustable side belt drive case sealer. Seals up to 28 cases per minute, using tape width of 36mm.



800af
3M-Matic™ Case Sealer 800af is an adjustable fully automatic case sealer.



3M-Matic™ T-table Attachment
3M-Matic™ T-table Attachment is a 6" x 44" t-table attachment for use with 3M-Matic™ Case Sealers a80 and a80-3.



800ab
3M-Matic™ Case Sealer 800ab is an adjustable side belt drive case sealer. Applies bottom seal only at rates up to 40 cases per minute, using tape widths from 36mm to 48mm, and also 72mm tape.

Side Belt Drive Systems

| Machine | Drive System | Box Size Capacity (inches) | | | | | | Power Requirements | | Operating Rate (cs/min) | Belt-Drive Speed ft/min (m/s) | Taping Head | Comments |
|---------|--------------|----------------------------|------|------------|---------|------|-------------|--------------------------|---------------------|-------------------------|-------------------------------|------------------------|--|
| | | Minimum | | | Maximum | | | Electrical | Air | | | | |
| | | L | W | H | L | W | H | | | | | | |
| a80 | Side | 6.0 | 4.75 | 4.5 | N/L | 21.5 | 21.5 | 115VAC 60Hz 3.8A 440W | No Air | Up to 30 | 78 (0,4) | 2" 3M™ AccuGlide™ 2+ | Entry Level |
| a80-3 | Side | 6.0 | 5.75 | 4.5 | N/L | 21.5 | 21.5 | 115VAC 60Hz 3.8A 440W | No Air | Up to 30 | 78 (0,4) | 3" 3M™ AccuGlide™ 2+ | |
| a80b | Side | 6.0 | 4.75 | 3.5 | N/L | 21.5 | N/L | 115VAC 60Hz 3.8A 440W | No Air | Up to 30 | 78 (0,4) | 2" 3M™ AccuGlide™ 2+ | Entry Level Bottom Taping Only |
| a80b-3 | Side | 6.0 | 5.75 | 3.5 | N/L | 21.5 | N/L | 115VAC 60Hz 3.8A 440W | No Air | Up to 30 | 78 (0,4) | 3" 3M™ AccuGlide™ 2+ | |
| 8000a | Side | 6.0 | 4.5 | 4.25 | N/L | 21.5 | 28.0 | 115VAC 60Hz 3.8A 440W | No Air | Up to 40 | 100 (0,5) | 2" 3M™ AccuGlide™ 3 | Extended size capabilities are possible, please contact 3M |
| 8000a3 | Side | 6.0 | 5.5 | 4.25 | N/L | 21.5 | 28.0 | 115VAC 60Hz 3.8A 440W | No Air | Up to 40 | 100 (0,5) | 3" 3M™ AccuGlide™ 3 | |
| 800asb | Side | 6.0 | 3.9 | 2.75 | N/L | 21.5 | 22.25 | 115VAC 60Hz 3.8A 440W | No Air | Up to 28 | 57 (0,3) | 1.5" 3M™ AccuGlide™ II | Small Box |
| 800ab | Side | 6.0 | 5.5 | 3.5 | N/L | 21.5 | N/L | 115VAC 60Hz 3.8A 440W | No Air | Up to 40 | 100 (0,5) | 2" 3M™ AccuGlide™ 3 | Bottom Taping Only |
| 800ab3 | Side | 6.0 | 5.5 | 3.5 | N/L | 21.5 | N/L | 115VAC 60Hz 3.8A 440W | No Air | Up to 40 | 100 (0,5) | 3" 3M™ AccuGlide™ 3 | Bottom Taping Only |
| 800af | Side | 6.0 | 4.75 | 4.5 [3.75] | 30 | 21.5 | 24.5 [28.5] | 115VAC 60Hz 3.8A 440W | 2.5 SCFM @ 85 PSIG | Up to 40 | 100 (0,5) | 2" 3M™ AccuGlide™ 3 | Flap-Folding |
| 800af3 | Side | 6.0 | 5.75 | 4.5 [3.75] | 30 | 21.5 | 24.5 [28.5] | 115VAC 60Hz 3.8A 440W | 2.5 SCFM @ 85 PSIG | Up to 40 | 100 (0,5) | 3" 3M™ AccuGlide™ 3 | |
| a80-t | Side | 6.0 | 4.75 | 4.5 | N/L | 21.5 | 21.5 | 115VAC 60Hz 3.8A 440W | No Air | Up to 30 | 78 (0,4) | 2" 3M™ AccuGlide™ 2+ | Entry Level Pack Station |
| a80f | Side | 6.0 | 4.5 | 4.5 | 24 | 21.5 | 21.25 | 115VAC 60Hz 3.8A 440W | 3.75 SCFM @ 85 PSIG | Up to 30 | 78 (0,4) | 2" 3M™ AccuGlide™ 2+ | Entry Level |
| a80f-3 | Side | 6.0 | 5.5 | 4.5 | 24 | 21.5 | 21.25 | 115VAC 60Hz 3.8A 440W | 3.75 SCFM @ 85 PSIG | Up to 30 | 78 (0,4) | 3" 3M™ AccuGlide™ 2+ | Entry Level Flap-Folding |

Standard size capabilities are listed above. If additional sizes can be met, they are indicated by [Taping Head] or [Machine Configuration]. Changing the taping head or machine configuration will allow for enhanced box height range indicated in the chart above. Please refer to the Instructions and Parts List or 3M representative for more detail.

3M-Matic™ Random Case Sealers



Productivity with Automatic Height and Width Adjustments

Adjusting automatically, these rugged units reliably and accurately seal runs of random size cartons for a variety of markets: food and beverage, medical devices, pharmaceuticals, electronics, retail, manufacturing and distribution centers. Patented 3M™ AccuGlide™ 2+ and 3 Taping Heads securely apply tape with low impact to protect even lightweight cases.



7000r Pro 37
 3M-Matic™ Random Case Sealer 7000r Pro is a semi-automatic random case sealer that automatically adjusts for case height and width and is capable of sealing 24 cases per minute, using tape widths from 36mm to 48mm wide.



800r 49
 3M-Matic™ Case Sealer 800r is a semi-automatic random case sealer automatically adjusts for case height and width. Top and bottom seal at rates up to 20 cases per minute, using tape widths from 36mm to 48mm wide.



800rks 50
 3M-Matic™ Case Sealer 800rks is a random king size case sealer that automatically adjusts for case height and width and is capable of sealing up to 10 cases per minute, using tape widths from 48mm to 72mm wide.



800rf 51
 3M-Matic™ Case Sealer 800rf Type 40800 is a fully automatic random size case sealer that automatically adjusts for various case sizes and folds the top minor and major flaps up to 10 cases per minute. Using tape widths from 36mm to 48mm tape widths.

Top and Bottom Belt Drive Systems

| Machine | Drive System | Box Size Capacity (inches) | | | | | | Power Requirements | | Operating Rate (cs/min) | Belt-Drive Speed ft/min (m/s) | Taping Head | Comments |
|-------------------|----------------|----------------------------|-----|-------|---------|------|------|-----------------------|---------------------|-------------------------|-------------------------------|---------------------|--|
| | | Minimum | | | Maximum | | | Electrical | Air | | | | |
| | | L | W | H | L | W | H | | | | | | |
| 7000r Pro | Top and Bottom | 6.0 | 6.5 | 4.375 | N/L | 26.5 | 26.0 | 115VAC 60Hz 3.8A 440W | 3.75 SCFM @ 85 PSIG | Up to 24 | 100 (0,5) | 2" 3M™ AccuGlide™ 3 | Extended size capabilities are possible, please contact 3M |
| 7000r3 Pro | Top and Bottom | 6.0 | 6.5 | 4.375 | N/L | 26.5 | 26.0 | 115VAC 60Hz 3.8A 440W | 3.75 SCFM @ 85 PSIG | Up to 24 | 100 (0,5) | 3" 3M™ AccuGlide™ 3 | |

Standard size capabilities are listed above. If additional sizes can be met, they are indicated by [Taping Head] or [Machine Configuration]. Changing the taping head or machine configuration will allow for enhanced box height range indicated in the chart above. Please refer to the Instructions and Parts List or 3M representative for more detail.

Side Belt Drive Systems

| Machine | Drive System | Box Size Capacity (inches) | | | | | | Power Requirements | | Operating Rate (cs/min) | Belt-Drive Speed ft/min (m/s) | Taping Head | Comments |
|---------------|--------------|----------------------------|-----|------|---------|------|---------------|--------------------------------|---------------------|-------------------------|-------------------------------|----------------------|-----------------------|
| | | Minimum | | | Maximum | | | Electrical | Air | | | | |
| | | L | W | H | L | W | H | | | | | | |
| 800r | Side | 8.0 | 4.5 | 5.0 | N/L | 20.0 | 21.25 [25.25] | 115VAC 60Hz 3.8A 440W | 3.75 SCFM @ 85 PSIG | Up to 20 | 100 (0,5) | 2" 3M™ AccuGlide™ 3 | Semi-Automatic Random |
| 800r3 | Side | 8.0 | 5.5 | 5.0 | N/L | 20.0 | 21.25 [25.25] | 115VAC 60Hz 3.8A 440W | 3.75 SCFM @ 85 PSIG | Up to 20 | 100 (0,5) | 3" 3M™ AccuGlide™ 3 | |
| 800rks | Side | 15.0 | 6.0 | 12.0 | N/L | 30.0 | 50.0 | 208/240VAC 3Ph 60Hz 6.6A 1500W | 6.25 SCFM @ 85 PSIG | Up to 10 | 78 (0,4) | 3" 3M™ AccuGlide™ 2+ | Random King Size |
| 800rf | Side | 8.0 | 5.5 | 6.0 | 24.0 | 20.0 | 20.0 | 208/240VAC 3Ph 60Hz 5.5A 1300W | 7.0 SCFM @ 75 PSIG | Up to 10 | 100 (0,5) | 2" 3M™ AccuGlide™ 3 | Fully-Automatic |
| 800rf3 | Side | 8.0 | 5.5 | 6.0 | 24.0 | 20.0 | 20.0 | 208/240VAC 3Ph 60Hz 5.5A 1300W | 7.0 SCFM @ 75 PSIG | Up to 10 | 100 (0,5) | 3" 3M™ AccuGlide™ 3 | |

Standard size capabilities are listed above. If additional sizes can be met, they are indicated by [Taping Head] or [Machine Configuration]. Changing the taping head or machine configuration will allow for enhanced box height range indicated in the chart above. Please refer to the Instructions and Parts List or 3M representative for more detail.

3M™ AccuGlide™ Taping Head Technology

3M Taping Heads for Easy and Accurate Case Sealing

3M™ AccuGlide™ Taping Heads are patented with a curvilinear design that applies tape securely with low impact that helps protect even lightweight cartons and contents. Since the combination of box sealing tape and taping head determines carton closure performance, 3M is continually improving both to meet your requirements for productivity and reliability.



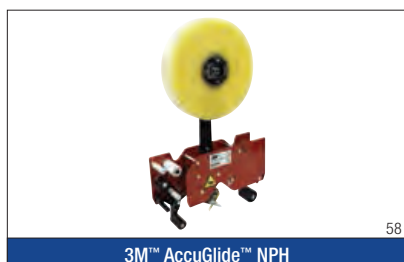
3M™ AccuGlide™ 3
Raising the speed limit to 100 ft. per minute for easy, consistent and accurate case sealing.



3M™ AccuGlide™ 2+
Speeds up to 80 ft. per minute.



3M™ AccuGlide™ 2+ SSSL
Stainless steel resists corrosion. Speeds up to 80 ft. per minute.



3M™ AccuGlide™ NPH
Designed for case sealers with narrow taping head cavity. Applies tape at up to 100 ft. per minute.



3M™ AccuGlide™ LHB
A low height box taping head that exerts minimum force on case and utilizes shorter tape legs.



3M™ AccuGlide™ HST
Heads available to apply 48mm and 72mm wide tape at case speeds of up to 150 ft. per minute. Unique precision shaft and ball bushing slide ensure precise application.

Customized 3M-Matic™ Equipment

Built Around Your Product Needs

As a market leader in case sealing equipment, 3M realizes it's not one size fits all. We have a unique capability to take an existing 3M-Matic™ Case Sealer and customize it to securely seal your unique cartons. Some of our capabilities include width and height modifications, accommodating lighter or heavy weight boxes, and integrating unique tape set ups.



Side Taping



Gap Flap Taping



Wide Roll Taping

Non-RSC Closure Solutions

A Range of Solutions Can Increase Throughput While Decreasing Packaging Costs

- Solutions for start-ups
- Automation for large companies

3M-Matic™ L-Clip Applicator S867 and S867II

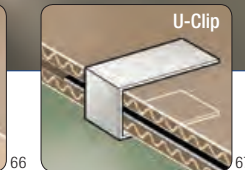
To save cost and time, apply pre-fed 4.5-inch L-Clips of Scotch® Filament or Reinforced Strapping Tapes at up to 50 clips per minute to five panel fold, full overlap, telescoping, tuck fold and other non-standard packages. Dual head applies two clips simultaneously as close as 8 inches apart.



3M-Matic™ Dual L-Clip Applicator S867II



3M-Matic™ L-Clip Applicator S867 with optional U-Clip adapter.



Great L-Clip Closure Solution for Non-RSC Box Styles

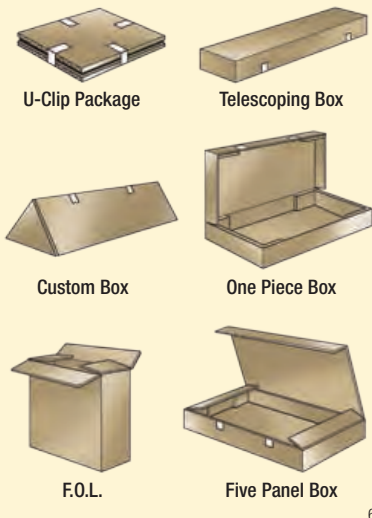


Table Top L-Clip Applicators

| Features | Box Sealer S634 | Box Sealer S63 |
|--------------------------------|---|---|
| Tape Type(s) | Filament Tape Light Duty Packaging Tape | Light Duty Packaging Tape |
| Can L-Clip These Package Types | Corrugate | Corrugate, chipboard, acetate film and other plastics |
| Applied Tape Length | 4 in. | 1-1/2 in. |
| Tape Width Options | 9mm to 18mm | 6mm to 12mm |
| Cutting Method | Serrated blade cuts tape as box passes L-Clip application mechanism | Tape is "shear" cut before application, produces clean and straight tape edge |



Scotch® Filament Tape Box Sealer S634



Scotch® Manual Box Sealer S63

Genuine 3M Parts to Maintain Optimal Performance of 3M-Matic™ Case Sealers

Engineered for rugged duty with steel construction and epoxy coated surfaces, 3M-Matic™ Case Sealers may have parts that wear and need occasional replacement. 3M maintains stock of a full range of replacement parts from typical wear parts such as blades, belts, and springs to safety labels to bushings and cylinders. With over 5,000 stocked SKUs, replacement parts are available for prompt delivery to your location whether you are doing preventive maintenance or rebuilding a 3M-Matic™ Case Sealer after years of service.

Regular preventive maintenance of your equipment and quality parts are keys to performance of both newer case sealers or models that have been running for 30 years.

For tape dispenser replacement parts, call: 1-800-344-9883

Scotch® Tape Dispensers

RETRACTABLE
BLADE



Scotch® Box Sealing Tape Dispenser HR80

Portable, lightweight, easy to operate, hand-held dispenser with a retractable blade.



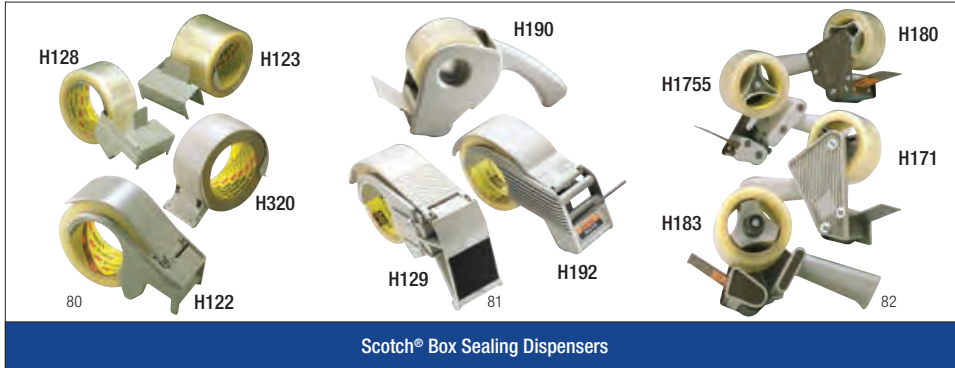
Scotch® Low Noise Box Sealing Tape Dispenser H150

A hand-held, roll-on, pistol-grip dispenser designed to reduce the noise of tape unwind.



Tartan™ Pistol Grip Box Sealing Tape Dispenser HB903

A hand-held, roll-on, pistol-grip dispenser.



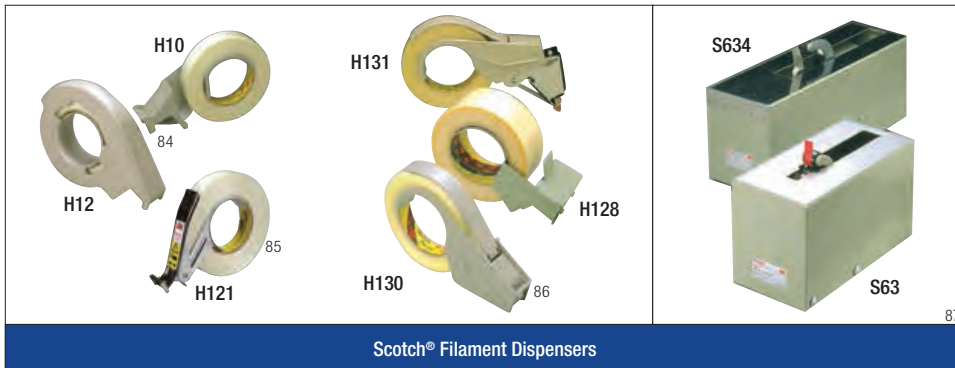
Scotch® Box Sealing Dispensers

Hand-held dispensers for use with specially formulated Scotch® Box Sealing Tapes.



Scotch® Bag Sealers

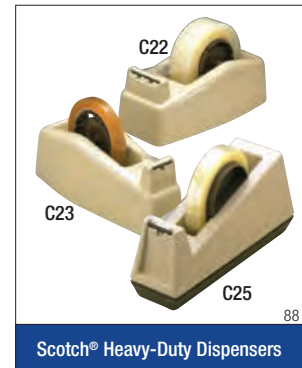
Applies tape in an adhesive-to-adhesive flag seal.



Scotch® Filament Dispensers

Hand-held dispensers for use with Scotch® High Strength Filament Tapes.

Semi-automatic dispensers for use with Scotch® High Strength Filament Tapes.



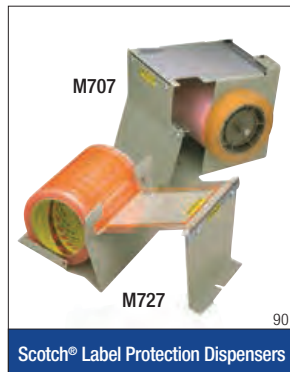
Scotch® Heavy-Duty Dispensers

Manual heavy-duty dispensers for use with 3M™ Narrow Width Film Tapes.



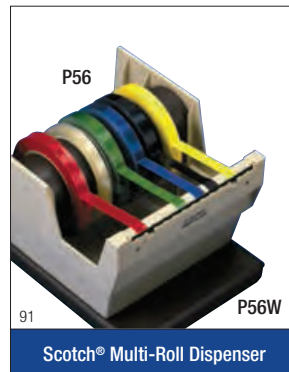
Scotch® Stretchable Tape Dispenser

Hand-held dispenser with tensioning/stretching brake for use with 3M™ Stretchable Tapes.



Scotch® Label Protection Dispensers

Tabletop and portable dispensers designed specifically for 3M™ Label Protection and Pouch Tapes.



Scotch® Multi-Roll Dispenser

Dispenser for pull and tear of up to 6 inches total width of tapes. P56W offers weighted base.



Scotch® Definite Length Dispensers

Dispensers that deliver a uniform length of 3M™ Narrow Width Tape and Scotch® Filament Tapes every time quickly and easily.

Scotch® Tape Dispensers

Easy Dispensing for Manufacturing, Office, Commercial and Retail Jobs

All Scotch® Manual Dispensers for box sealing tapes, filament tapes, film tapes, label protection tapes and pouch tapes are application-designed to meet the needs of the customer. Select from a variety of hand-held and heavy duty pull-and-tear table top dispensers.

| Product | Product Description | Max Tape Width |
|--|---|----------------|
| Hand-Held Box Sealing Tape Dispensers | | |
| H122 | Durable plastic dispenser with built-in brake for precise seals | 48mm |
| H123 | Lightweight, compact metal tape dispenser | 72mm |
| H128 | Heavy-duty durable metal tape dispenser | 48mm |
| H129 | Quick and easy one hand method to apply, cut, and buff the tape closures | 48mm |
| H150 | Tape dispenser designed to reduce the noise of tape unwind during application | 48mm |
| H153 | Tape dispenser designed to reduce the noise of tape unwind during application | 72mm |
| H180 | Portable and easy to operate pistol grip dispenser | 48mm |
| H183 | Portable and easy to operate pistol grip dispenser | 72mm |
| H190 | Pistol grip dispenser features pull apart design | 48mm |
| H192 | Ergonomical tape dispenser with hand brake | 48mm |
| H320 | Ultra-light, economical, plastic tape dispenser | 48mm |
| H1755 | Lightweight, pistol grip tape dispenser | 48mm |
| HB902 | Economical, compact, and lightweight tape dispenser | 48mm |
| HB903 | Economical pistol grip tape dispenser | 48mm |
| HR22 | Lightweight, compact, dispenser with a retractable blade | 48mm |
| HR80 | Portable, lightweight, easy to operate, dispenser with a retractable blade | 48mm |
| HR83 | Portable, lightweight, easy to operate, dispenser with a retractable blade | 72mm |
| HR933 | Economical tape dispenser with a retractable blade | 72mm |
| Hand-Held Filament Tape Dispensers | | |
| H10 | Durable, lightweight plastic tape dispenser | 24mm |
| H12 | Portable, plastic dispenser features a hand brake to add tension to the tape roll | 24mm |
| H121 | Durable, metal dispenser allows operator to add tension for a tighter tape application | 24mm |
| H128 | Heavy-duty, metal dispenser commonly used to dispense tapes 8959 and 890 | 48mm |
| H130 | Portable, plastic dispenser features a hand brake to add tension to the tape roll | 18mm |
| H131 | Quick and easy one hand method to apply, cut, and buff the tape closures | 18mm |
| H133 | Quick and easy one hand method to apply, cut, and buff the tape closures | 18mm |
| HB901 | Economical and portable tape dispenser | 24mm |
| Table Top Dispensers | | |
| C22 | Weighted dispenser for easy pull and cut tape dispensing | 2 in. |
| C23 | Weighted dispenser for easy pull and cut tape dispensing | 1 in. |
| C25 | Weighted dispenser for easy pull and cut tape dispensing | 1 in. |
| M82 | Definite length dispenser handles multiple rolls of tape commonly dispensed with filament and light duty tapes | 96mm |
| M96 | Definite length dispenser — dispenses tape in lengths of 3/4 in. to 5 in. per stroke | 1 in. |
| M900 | Durable, metal construction dispenses a uniform length of packaging tape from 1-1/2 in. to 16 in. | 3 in. |
| M920 | Definite length dispenser — dispenses tape in lengths of 1/2 in. to 4 in. per stroke | 1 in. |
| P52 | Mainline tabletop manual pull and cut dispenser with multiple roll capacity | 2 in. |
| P52W | Mainline tabletop manual pull and cut dispenser with multiple roll capacity (comes with weighted base) | 2 in. |
| P56 | Mainline tabletop manual pull and cut dispenser with multiple roll capacity | 6 in. |
| P56W | Mainline tabletop manual pull and cut dispenser with multiple roll capacity (comes with weighted base) | 6 in. |
| P448 | Metal dispenser that handles multiple rolls for easy dispensing | 8 in. |
| S63 | Semi-automatically applies L-Clip of tape to a box using filament or light duty tapes | 12mm |
| S634 | Semi-automatically applies L-Clip of tape to a box using filament or light duty tapes | 18mm |
| W100 | Manually dispenses pre-set length of water-activated tapes | 3 in. |
| W200 | Electronic dispenser — dispenses a pre-set length of water-activated tape at the push of a button | 3 in. |
| Specialty Tape Dispensers | | |
| H38 | Lightweight, plastic dispenser — dispenses stretchable tapes 8884 and 8886 | 36mm |
| M707 | Heavy duty metal dispenser with auxiliary holder and cutter for 3/4-inch rolls of tape — commonly used with 821 and 823 tapes | 4 in. |
| M727 | Metal construction provides easy dispensing of pouch tapes 824, 827 and 829 | 5 in. |
| M797 | Metal construction provides easy dispensing of pouch tape 827 | 6 in. |
| P400 | Bag sealer — applies tape in an adhesive-to-adhesive — flag seal (includes bag trimmer) | 3/4 in. |
| P410 | Bag sealer — applies tape in an adhesive-to-adhesive flag seal | 1/2 in. |

3M Systems Tape Agreement

Buy a New 3M-Matic™ Case Sealer and Scotch® Box Sealing Tape, Get a Cash Rebate or Accessories at No Additional Charge

The 3M Systems Tape Agreement allows you to:

- Save on the overall cost of your case sealing equipment
- Accelerate your packaging equipment Return on Investment
- Receive valuable parts and accessories at no charge
- Increase productivity and uptime
- Choose options that best fit your needs



The More Tape You Purchase,

The Greater Your Rebate and Savings!

Earn Cash Rebates*

Earn cash rebates when you purchase a new 3M-Matic™ Case Sealer or Combi Packaging Systems equipment and purchase qualifying amounts of Scotch® Box Sealing Tape in accordance with the terms of the program.



Sign Up for Annual Maintenance Program**

- Spare parts kits or parts vouchers
 - Earn free spare parts for your 3M-Matic™ Case Sealer when you purchase qualifying amounts of Scotch® Box Sealing Tape
- 3M™ AccuGlide™ Taping Heads
 - Earn free 3M™ AccuGlide™ Taping Heads for your 3M-Matic™ Case Sealer when you purchase qualifying amounts of Scotch® Box Sealing Tape



Sign a second Systems Tape Agreement, get another taping accessory at no additional charge†

3M tape dispensers available with qualifying purchases.

*Rebate check is paid directly from 3M to customer after completing purchase of 3M-Matic™ Case Sealing Equipment and qualifying tape products. Dollar amount of rebate is determined by equipment purchase price, plus tape model and pallet quantity ordered.

**3M™ AccuGlide™ Taping Heads, Spare Parts Kits and Hand Dispensers are shipped up front to customer upon signing new tape purchase agreement. Parts Vouchers can be used as needed during the agreement term.

†Purchase requirements for initial Systems Tape Agreement must be satisfied in order to enter into a second agreement.

Box Sealing Tapes



Scotch® and Tartan™ Box Sealing Tapes

Technology That Really Delivers

The full job of a package is containment, protection and communication.

Delivering quality with tapes that keep production lines moving with less interruption and ensure packages are sealed on arrival.

- 3M tapes can typically wrap the world 3.5 times before a defect is found
- Cost savings with fewer rejected shipments

Delivering service and support to help you select the right 3M product for your application.

- On-site consultation with experienced 3M engineers and sales specialists

Delivering sustainability by caring for the environment now and for the future.

- Our efforts date back to 1973, when we formed our Energy Management Department. Since then, we have cut energy consumption indexed to net sales in our U.S. operations by 82%.
- We cut our worldwide energy use indexed to net sales by 49% between 2000 and 2011
- Visit www.3M.com/sustainability for more goals

Delivering more. In addition to box sealing tapes and equipment, 3M is your resource for bundling, reinforcing, labeling and other innovative packaging solutions.

Technology That Solves Common Problems



Easy unwind and high initial adhesion of Scotch® Box Sealing Tapes reduce tabbing downtime and rework.



Initial adhesion and subsequent holding power of Scotch® Box Sealing Tapes resist popping for secure sealing throughout a supply chain.



Scotch® Box Sealing Tapes close securely without the holes, waste, appearance, sharp points and disposal of staples.



Scotch® Box Sealing Tapes resist moisture encountered in storage and shipping through the supply chain.

Tape Backing and Adhesive Selection Guide

Step 1. Select Tape Backing

Scotch® and Tartan™ Box Sealing Tapes offer backing choices for specific performance properties:

Polyester

- Strongest backing
- Excellent abrasion resistance
- Moisture and chemical resistance
- Highest temperature resistance
- Transparency

Polypropylene

- Strong backing
- Good abrasion resistance
- Good conformability
- Most economical
- Transparency

Step 2. Select Tape Adhesive

With the Scotch® and Tartan™ Box Sealing Tapes you have two choices of pressure sensitive adhesive, each with a different combination of properties. Both seal cartons reliably without the mess, dwell time and equipment maintenance of hot melt adhesive.

Synthetic Rubber

- Excellent holding power
- Good initial adhesion above 40°F
- Meets ASTM D-5486 government specification

Acrylic

- Excellent initial adhesion over a broad temperature range
- Extremely long performance life
- UV and chemical resistance

Box Sealing Tape Selector

Additional packaging and shipping factors should be considered when selecting a box sealing tape. To determine a product for testing use this selector.

| Circle the Point Value That Best Describes Your Operations | | | Choose an Effective Closure...Choose 3M | | | | |
|--|-------------|--------|---|-------|-------|-------|------|
| | Point Value | POINTS | | | | | |
| 1. How much does the filled box weigh? | | | | | | | |
| a. 10 pounds | 10 | | | | | | |
| b. 20 pounds | 20 | | | | | | |
| c. 30 pounds | 25 | | | | | | |
| d. 40 pounds | 30 | | | | | | |
| e. 50 pounds | 35 | | | | | | |
| f. 70 pounds | 45 | | | | | | |
| g. 80 pounds | 50 | | | | | | |
| h. 100 pounds | 60 | | | | | | |
| 2. What is the carton burst/ECT test? | | | | | | | |
| a. 150 SW/26 | 5 | | | | | | |
| b. 175 SW/29 | 10 | | | | | | |
| c. 200 SW/32 | 15 | | | | | | |
| d. 250 SW/40 | 20 | | | | | | |
| e. 275 SW/44 | 25 | | | | | | |
| f. 350 SW/55 | 30 | | | | | | |
| g. 200 DW/42 | 35 | | | | | | |
| h. 275 DW/48 | 40 | | | | | | |
| i. 350 DW/51 | 45 | | | | | | |
| 3. What is the value of contents? | | | | | | | |
| a. <\$100 | 10 | | | | | | |
| b. \$100–\$1000 | 25 | | | | | | |
| c. >\$1000 | 40 | | | | | | |
| 4. What is the method of shipment? | | | | | | | |
| a. Palletized and unitized | 5 | | | | | | |
| b. Palletized but not unitized | 15 | | | | | | |
| c. Single | 30 | | | | | | |
| 5. Type of carrier | | | | | | | |
| a. Company truck | 5 | | | | | | |
| b. Commercial transport/LTL | 15 | | | | | | |
| c. UPS/USPS/FEDEX | 30 | | | | | | |
| TOTAL POINTS | | | | | | | |
| | | | 205 | | | | |
| | | | 195 | | | | 72mm |
| | | | 180 | | | | |
| | | | 165 | | | 72mm | |
| | | | 150 | | | | 48mm |
| | | | 135 | | | | |
| | | | 120 | | 72mm | 48mm | |
| | | | 105 | | | | |
| | | | 90 | 72mm | 48mm | 42mm | |
| | | | 75 | | | | |
| | | | 60 | 48mm | 42mm | | 36mm |
| | | | 45 | 42mm | 36mm | 36mm | |
| | | | 35 | 36mm | | | |
| | | | TOTAL POINTS | | | | |
| | | | Scotch® Box Sealing Tape Recommended for Testing | | | | |
| | | | #3071 | #3072 | #3072 | #3073 | |
| | | | #371 | #372 | #373 | #375 | |
| | | | #311 | #313 | | #355 | |

The suggestion provided by this method must be confirmed by testing. These suggestions are based on experience, but there are factors which could alter the overall performance. For example:

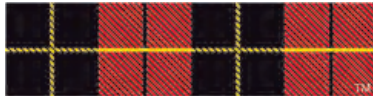
- Cartons with center seam gap greater than 3/4" or over packed/ under packed cartons should be tested with 3" (72mm) wide tape
- Hard-to-stick surfaces and Recycled Corrugate Boxes, test Scotch® Recycled Corrugate Tape 3071, 3072 and 3073
- Box sealing tapes are available custom printed and with standard security messages
- Applications when tape is applied under 40°F, test Scotch® Box Sealing Tape 311, 313 and 3073
- If your package is unusual in size, shape, or load, try the 3M Technical Service Request (TSR) Program. Using the 3M TSR Program, a 3M representative will work with you on initial testing of a Scotch® Box Sealing Tape. One or two best options will be identified then a sample of your substrate is brought to the 3M Laboratories and tested for stress or other factors the product will encounter. The 3M test results will help you select the best box sealing tape for your manufacturing process and customer needs.

Scotch® and Tartan™ Box Sealing Tapes

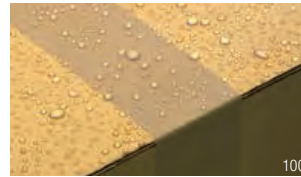
Dependability for Food and Beverage, Electronics, e-Fulfillment, Pharmaceuticals and More

With choices of polyester or polypropylene backings and synthetic rubber or acrylic adhesives, you have dependability for a wide variety of box types, sizes, contents, handling situations and storage conditions.

- Reliability even with the stresses of over packed or under packed boxes
- Quick, easy application by hand, manual dispensers or 3M-Matic™ Case Sealers
- Choice of lengths, widths and colors to meet specific needs
- Scotch® Recycled Corrugate Tapes are made with a proprietary adhesive designed specifically for recycled corrugate cartons



It's not sealed until it's Scotch® Sealed.



Scotch® Box Sealing Tapes with polyester backing and synthetic rubber adhesive resist the moisture in storage and shipping.

Consistent quality of Scotch® Box Sealing Tapes means fewer interruptions on your packaging line.

| Product | Tape Structure (Backing/Adhesive) | Adhesion to Steel oz./in. (N/100 mm) | Tensile Strength lbs./in. (N/100 mm) | Elongation at Break (%) | Backing Thickness mils (mm) | Total Thickness mils (mm) | Available Colors/Comments |
|---|------------------------------------|--------------------------------------|--------------------------------------|-------------------------|-----------------------------|---------------------------|--|
| ASTM Test Method | | D-3330 | D-3759 | D-3759 | D-3652 | D-3652 | |
| Scotch® Box Sealing Tapes | | | | | | | |
| 311 | Polypropylene/ Acrylic | 22 (24) | 25 (438) | 125 | 1.1 (.028) | 2.05 (.052) | |
| 313 | | 32 (35) | 35 (613) | 125 | 1.6 (.041) | 2.55 (.065) | Clear, Tan |
| 315 | | 38 (41.5) | 23 (402) | 200 | 2.3 (.058) | 3.5 (.089) | |
| 351 | Polyester/ Synthetic Rubber | 78 (85) | 67 (1174) | 130 | 2.0 (.051) | 3.43 (.089) | Clear, Tan or Custom Printed |
| 353 | | 45 (49) | 25 (437) | 110 | 1.0 (.025) | 1.9 (.048) | Clear, Tan |
| 355 | | 78 (85) | 67 (1174) | 130 | 2.0 (.051) | 3.43 (.089) | Clear, Tan or Custom Printed |
| 371 | Polypropylene/ Synthetic Rubber | 40 (44) | 22 (385) | 160 | 1.2 (.030) | 1.9 (.048) | Clear, Tan, Blue, Green, Orange, Red, White, Yellow or Custom Printed |
| 372 | | 45 (49) | 26 (455) | 160 | 1.4 (.035) | 2.2 (.056) | Clear, Tan or Custom Printed |
| 373 | | 50 (55) | 30 (525) | 160 | 1.6 (.041) | 2.5 (.064) | Clear, Tan, Blue, Green, Orange, Red, White, Yellow or Custom Printed |
| 375 | | 55 (60) | 35 (613) | 160 | 2.0 (.051) | 3.1 (.079) | Clear, Tan or Custom Printed |
| Scotch® Recycled Corrugate Tapes | | | | | | | |
| 3071 | Polypropylene/ Synthetic Rubber | 45 (49) | 22 (385) | 160 | 1.2 (.030) | 2.1 (.053) | For use on recycled corrugate cartons, Custom Printed |
| 3072 | | 65 (71) | 22 (385) | 160 | 1.2 (.030) | 2.3 (.058) | For use on recycled corrugate cartons, Custom Printed |
| 3073 | | 46 (50) | 30 (525) | 160 | 1.6 (.041) | 2.6 (.066) | For use on recycled corrugate cartons, Custom Printed, 10% bio-based content |
| Tartan™ Box Sealing Tapes | | | | | | | |
| 302 | Polypropylene/ Acrylic | 18 (20) | 23 (402) | 116 | 1.0 (.025) | 1.6 (.040) | |
| 305 | | 18 (20) | 21 (368) | 116 | 1.0 (.025) | 1.8 (.046) | Clear, Tan |
| 369 | Polypropylene/ Synthetic Rubber | 30 (32) | 19 (333) | 160 | 1.0 (.025) | 1.6 (.041) | |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Scotch® Specialty Box Sealing Tapes

Dependability for Cold Storage, Gapped Flap Cartons and More

Starting with the same dependability and durability of Scotch® Box Sealing Tapes, specialty tapes add specialized form and/or functional properties for specific applications across all markets.



For box packing, sealing and storage below 40°F, Scotch® Box Sealing Tapes 3073, 3721 and 3723 seal with a rubber adhesive modified for reliability in the cold.



Scotch® Box Sealing Tape 3779 alerts receivers to unauthorized opening with a red “Check Seal Before Accepting.”

| Product | Tape Structure (Backing/Adhesive) | Adhesion to Steel oz./in. (N/100 mm) | Tensile Strength lbs./in. (N/100 mm) | Elongation at Break (%) | Backing Thickness mils (mm) | Total Thickness mils (mm) | Available Colors/Comments | |
|----------------------------------|---|--------------------------------------|--------------------------------------|-------------------------|-----------------------------|---------------------------|--|--|
| ASTM Test Method | | D-3330 | D-3759 | D-3759 | D-3652 | D-3652 | | |
| Cold Temperature Tapes | | | | | | | | |
| 3721 | Polypropylene/Modified Synthetic Rubber | 52 (57) | 22 (386) | 160 | 1.2 (.030) | 2.1 (.053) | Clear | |
| 3723 | | 45 (49) | 30 (525) | 160 | 1.6 (.041) | 3.0 (.076) | Clear | |
| Custom Printed Tapes | | | | | | | | |
| 355CP | Polyester/Synthetic Rubber | 789 (85) | 67 (1174) | 130 | 2.0 (.051) | 3.42 (.089) | Clear, Tan | |
| 371CP | Polypropylene/Synthetic Rubber | 40 (44) | 22 (385) | 160 | 1.2 (.030) | 1.9 (.048) | Clear, Tan, Blue, Green, Orange, Red, White, Yellow | |
| 372CP | | 45 (49) | 26 (455) | 160 | 1.4 (.035) | 2.2 (.056) | Clear, Tan | |
| 373CP | | 50 (55) | 30 (525) | 160 | 1.6 (.041) | 2.5 (.064) | Clear, Tan, Blue, Green, Orange, Red, White, Yellow | |
| 375CP | | 55 (60) | 35 (613) | 160 | 2.0 (.051) | 3.1 (.079) | Clear, Tan | |
| 3071CP | | 45 (44) | 22 (385) | 160 | 1.2 (.030) | 2.1 (.053) | For use on recycled corrugate cartons | |
| 3072CP | | 65 (71) | 22 (385) | 160 | 1.2 (.030) | 2.3 (.058) | For use on recycled corrugate cartons, Custom Printed | |
| 3073CP | | 46 (50) | 30 (525) | 160 | 1.6 (.041) | 2.6 (.066) | 10% bio-based and for use on recycled corrugate cartons | |
| Security Tapes | | | | | | | | |
| 3199 | Polypropylene/Acrylic | 22 (24) | 25 (438) | 125 | 1.1 (.028) | 2.05 (.052) | Clear with Red Type: CHECK SEAL BEFORE ACCEPTING | |
| 3732 | Polypropylene/Synthetic Rubber | 50 (55) | 30 (525) | 160 | 1.6 (.041) | 2.5 (.064) | Tan with Red Type: IF SEAL IS BROKEN CHECK CONTENTS BEFORE ACCEPTING | |
| 3734 | | 50 (55) | 30 (525) | 160 | 1.6 (.041) | 2.5 (.064) | Tan with Red Type: FRAGILE HANDLE WITH CARE | |
| 3771 | | 40 (44) | 22 (385) | 160 | 1.2 (.030) | 1.9 (.048) | White with Red Type: IF SEAL IS BROKEN CHECK CONTENTS BEFORE ACCEPTING | |
| 3772 | | 40 (44) | 22 (385) | 160 | 1.2 (.030) | 1.9 (.048) | White with Red Type: FRAGILE HANDLE WITH CARE | |
| 3775 | | 40 (44) | 22 (385) | 160 | 1.2 (.030) | 1.9 (.048) | White with Red Type: MIXED MERCHANDISE ENCLOSED | |
| 3779 | | 40 (44) | 22 (385) | 160 | 1.2 (.030) | 1.9 (.048) | Clear with Red Type: CHECK SEAL BEFORE ACCEPTING | |
| 3M™ Water Activated Tapes | | | | | | | | |
| ASTM Test Method | | D-646 | D-645 | D-5803 | D-1922 | | | |
| 6141 | Paper backing/gummed modified cornstarch based adhesive | 35 | 3.5 | 30 | 72 | | | |
| 6142 | | 60 | 5.5 | 44 | 125 | | Kraft (Tan) or Custom Printed | |
| 6143 | | 90 | 7.5 | 58 | 200 | | | |
| 6144 | Paper backing with filament reinforcement/gummed modified cornstarch based adhesive | 23/23 | 4.9 | N/A | 45–50 | | Kraft (Tan) or Custom Printed | |
| 6145 | | 23/23 (Kraft) 30/23 (White) | 5.0 (Kraft) 7.3 (White) | N/A | 52–57 | | Kraft (Tan), White or Custom Printed | |
| 6146 | | 30/23 | 6.5 | N/A | 60–65 | | Kraft (Tan) or Custom Printed | |
| 6147 | | 23/23 (Kraft) 30/23 (White) | 8.5 | N/A | 60–65 | | Kraft (Tan), White or Custom Printed | |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Light Duty Packaging Tapes

Versatility with Choices of Film Backings and Adhesives for Application Success

Typical Light Duty Applications

- Garment bundling
- Cookie tin seam sealing
- Plastic bag closure
- Attaching extended application tube to aerosol can
- Party tray closure
- Wrapped candy box closure
- Wrapper closure
- Document envelope closure
- Inner pack box closure

Variety of Surfaces

- Fabrics
- Molded plastics
- Metals
- Clay-coated paperboard
- Corrugated
- Vinyl and films



Hold plastic tray lid with Scotch® Transparent Film Tape 605.

104

Tapes for Apparel Tabbing and Holding

- **Scotch® Transparent Film Tape 600:** UPVC backing with very high strength acrylic adhesive
- **Scotch® Transparent Film Tape 640:** UPVC backing with clean removal acrylic adhesive for a wider variety of fabric finishes and treatments; formulated for tabbing shirts and underwear
- **3M™ Specialty Packaging Tape 5910:** Polypropylene backing with long-aging utility grade acrylic adhesive

Tapes for Other Light Duty Applications

- **Scotch® Transparent Film Tape 605:** Polypropylene backing with very aggressive acrylic adhesive for cold temperature applications
- **Scotch® Colored Film Tape 690:** UPVC backing with natural rubber adhesive for sealing and color coding
- **Scotch® Heat Shrinkable Film Tape 6887:** UPVC backing and rubber adhesive for tamper-indicating secondary closures on the seams of tins and jars



Scotch® Transparent Film Tape 640

105



Scotch® Manual Dispenser S63

106



Scotch® Colored Film Tape 690

91



Scotch® Colored Film Tape 690

107

Light Duty Packaging Tapes

| Product | Color | Backing Material | Backing Thickness mils (mm) | Total Thickness mils (mm) | Tensile Strength lb/in (N/100 mm) | Adhesive Type | Adhesion to Steel oz/in (N/100 mm) | Elongation (%) | Typical Use | Comments |
|---------|--|------------------|-----------------------------|---------------------------|-----------------------------------|------------------|------------------------------------|----------------|---|--|
| 600 | Clear | UPVC | 1.5 (0.038) | 2.3 (0.058) | 28 (490) | Acrylic | 40 (44) | 45 | L-Clip closure, attaching, tabbing and holding | Excellent handling, high clarity and long aging |
| 605 | Clear | Polypropylene | 1.6 (0.041) | 2.5 (0.064) | 22 (385) | Acrylic | 27 (30) | 57 | Cold temperature packaging | Cold temperature applications; Complies to FDA Regulations for indirect food contact |
| 610 | Clear | Cellophane | 1.4 (0.036) | 2.3 (0.058) | 23 (402) | Natural Rubber | 35 (38) | 15 | Splicing | High heat applications up to 300°F |
| 640 | Clear | UPVC | 1.2 (0.030) | 1.9 (0.048) | 32 (560) | Acrylic | 28 (30) | 65 | Tabbing and holding of apparel | Clean removal from wide variety of fabrics and substrates |
| 660 | Red | Cellophane | 1.4 (0.036) | 2.5 (0.064) | 20 (350) | Natural Rubber | 50 (55) | 10 | Splicing and easy detection | High heat applications up to 300°F; High adhesion |
| 681 | Clear | UPVC | 1.5 (0.038) | 2.4 (0.061) | 25 (438) | Natural Rubber | 30 (33) | 35 | Sealing | Resists moisture and chemicals; Heat shrinkable; Complies to FDA Regulations for indirect food contact |
| 690 | Black, Blue, Green, Red, Yellow, White | UPVC | 1.5 (0.038) | 2.3 (0.058) | 35 (613) | Natural Rubber | 30 (33) | 45 | Color coding | Resists moisture and chemicals; Heat shrinkable |
| 720 | Semi Transparent | Film/Fiber | 4.5 (0.114) | 6.3 (0.160) | 20 (350) | Synthetic Rubber | 90 (99) | 7 | Hand tearable, high tack | Hand tearable; High tack |
| 856 | Transparent | Polyester | 1.0 (0.025) | 2.0 (0.051) | 25 (438) | Acrylic | 20 (22) | 90 | Tough backing for good tear resistance | Tough backing for good tear resistance |
| 5910 | Clear | Polypropylene | 1.2 (0.030) | 2.0 (0.051) | 18 (315) | Acrylic | 16 (17) | 90 | Utility grade for light duty packaging applications | Conforms easily |

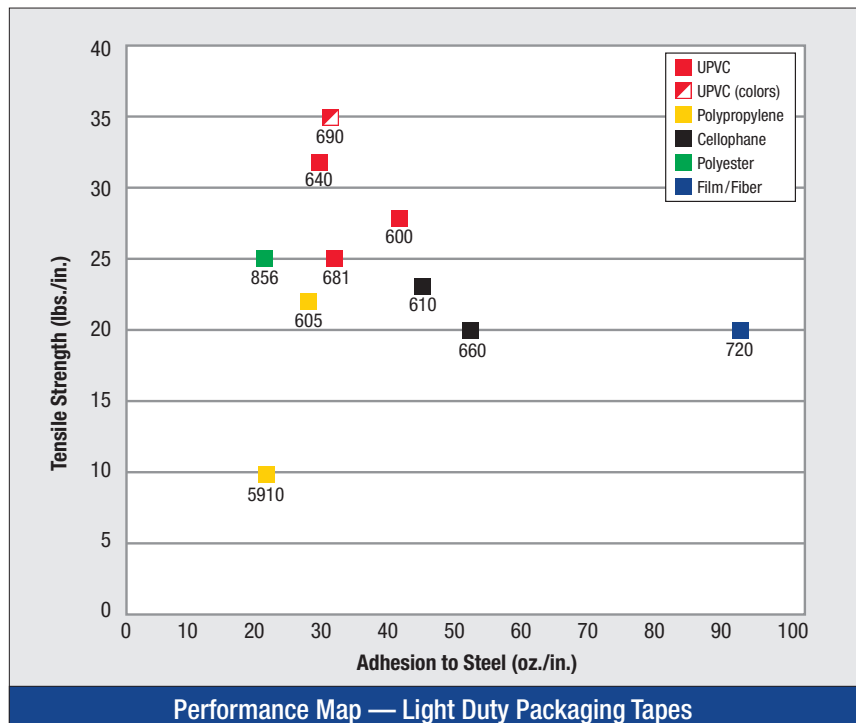
Technologies Matched to the Applications

Choice of Backings

- **UPVC** for transparency plus moisture, chemical and UV resistance; non-staining and heat-shrinkable
- **Polypropylene** for transparency plus conformability and flexibility
- **Cellophane** for heat resistance
- **Polyester** for strength and abrasion resistance
- **Film/fiber** for tear-by-hand convenience; high-tack

Choice of Adhesives

- **Acrylic** for long aging and UV resistance
- **Rubber** for high initial bond strength and adhesion to wide variety of materials including hard-to-bond plastics



Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

High Strength Tapes



High Strength Tapes

For Packaging and Non-Packaging Applications

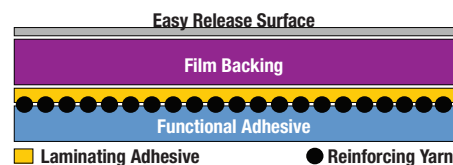
When you need a tape as strong as your reputation, you can count on 3M's consistently reliable, market-leading high strength tapes that are engineered to meet virtually any strapping, bundling or reinforcing challenge.

SELECTION: Our range of high strength tape constructions can help balance your product performance and budget needs.

SAVE TIME AND MONEY: Let 3M's application and technical experts, backed by a robust lab testing capability, help match the right tape to your performance requirements.

PEACE OF MIND: Scotch® and 3M brands are among the most innovative and trusted in the world. Our world-class tape manufacturing processes churn out confidence-building, product consistency and reliability, roll after roll.

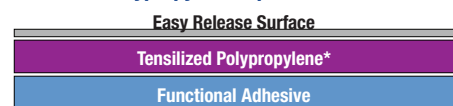
Filament Reinforced Tape



Reinforced Strapping Tape



Tensitized Polypropylene Tape



*A pre-stretched film to orient the backing for strength

Streamlined Selection for Application Success

STRONG
Up to **120** lbs./in.



Pallet Unitizing



PVC Pipe Bundling



Bundling for Shipping and Handling

| Product | Description | Tensile Strength* |
|---------|--|-------------------|
| 8932 | Glass yarn reinforced | 95 lbs./in. |
| 8934 | Glass yarn reinforced | 100 lbs./in. |
| 860 | Tensitized polypropylene | 110 lbs./in. |
| 862 | Reinforced strapping tape for strength AND high tape clarity | 120 lbs./in. |

STRONGER
Up to **270** lbs./in.



Carpet Bundling



Stabilizing Loose Parts



Bulk Bin or Skid Box Banding

| Product | Description | Tensile Strength* |
|---------|--|-------------------|
| 8898 | Tensitized polypropylene, clean removal | 160 lbs./in. |
| 897 | Glass yarn reinforced | 170 lbs./in. |
| 8651 | Reinforced strapping tape, strength AND clarity ideal for L-Clip closure on highly graphic boxes | 175 lbs./in. |
| 880 | Polyester yarn reinforced | 270 lbs./in. |

STRONGEST
Up to **1,200** lbs./in.



L- and U-Clip Closures



Metal Coil Tabbing



Rebar Bundling

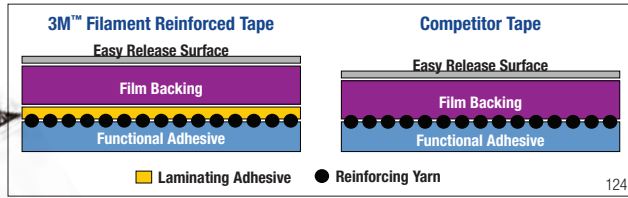
| Product | Description | Tensile Strength* |
|---------|---|-------------------|
| 893 | Glass yarn reinforced | 300 lbs./in. |
| 898 | Glass yarn reinforced, first choice for L- or U-Clip closure of non-RSC boxes | 380 lbs./in. |
| 8919MSR | Glass yarn reinforced, clean removal | 380 lbs./in. |
| 890MSR | Glass yarn reinforced, modified synthetic rubber adhesive for oily surfaces | 600 lbs./in. |
| 890HD | Glass yarn reinforced | 1,200 lbs./in. |

*ASTM Test Method D-3759

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

High Strength Filament Tapes

The World's Go-To Source for Filament Tapes Since 1946



3M's laminating adhesive layer provides an extra measure of protection against tape delamination to help ensure tape strength and performance throughout the application. With 3M, you get more consistency, reliability and confidence.

Technologies Matched to the Applications

Choice of Adhesives

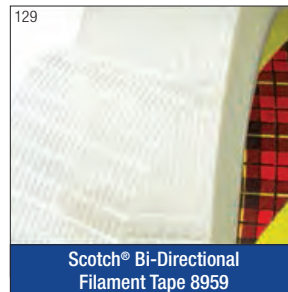
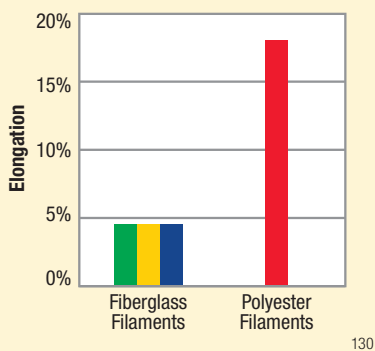
- **SR (Synthetic Rubber):** Versatile, good adhesion to many surfaces
- **MSR (Modified Synthetic Rubber):** Designed for adhesion to oily surfaces
- **RCT:** Designed for adhesion to recycled corrugate and other hard-to-stick-to-surfaces

Choice of Backings

- **Polypropylene:** Good abrasion, moisture and scuff resistance; excellent conformability
- **Polyester:** Tough, strong backing; handles and dispenses easily

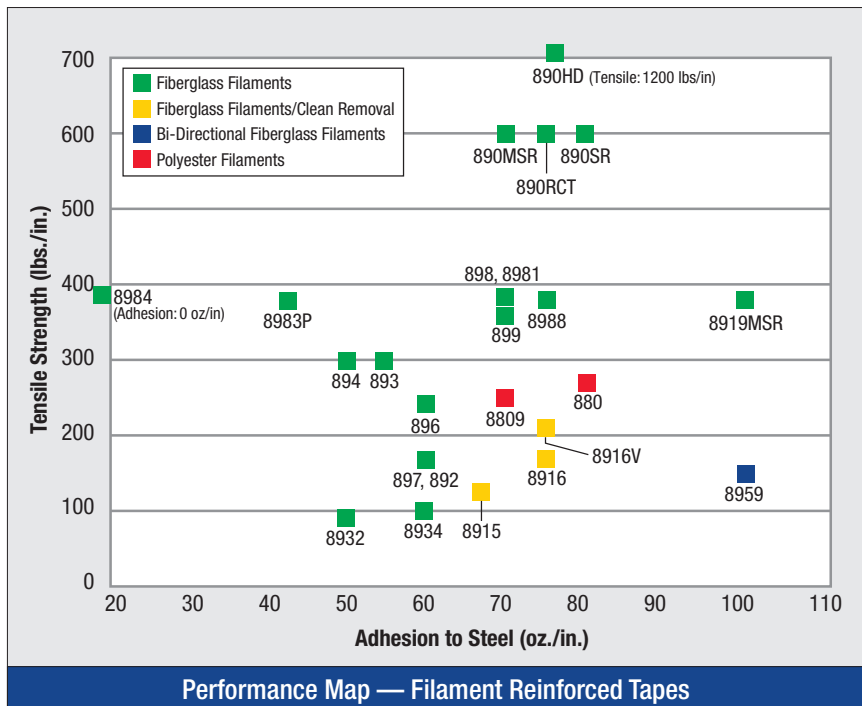
Choice of Filament Types

Higher elongation means better shock absorption and impact resistance, critical for heavy bundles such as rebar or steel pipe



Bi-Directional Filament

- Superior cut and puncture resistance
- Extra box or package security against pilferage
- Highest adhesion in our high strength tape offering



High Strength Filament Tapes

| Product | Tensile Strength lb/in (N/100 mm) | Backing Material | Reinforcement | Total Thickness mils (mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) | Elongation (%) | Backing Color | Typical Use and Comments |
|------------------|--------------------------------------|---------------------|---------------------------|---------------------------------|---------------------------|---------------------------------------|-------------------|------------------|---|
| ASTM Test Method | D-3759 | | | D-3652 | | D-3330 | | | |
| 890HD | 1200 (21012) | Polyester | Fiberglass | 11.3 (0.287) | Synthetic Rubber | 80 (88) | 4 | Clear | Extreme bundling and reinforcement; Highest tensile strength |
| 890SR | 600 (10500) | Polyester | Fiberglass | 8.0 (0.203) | Synthetic Rubber | 70 (77) | 3 | Clear | Basiloid, Heavy appliance lifting; Good adhesion to corrugate |
| 890RCT | 600 (10500) | Polyester | Fiberglass | 8.1 (0.210) | Synthetic Rubber | 75 (82) | 3 | Clear | Basiloid, Heavy appliance lifting; Good adhesion to recycled corrugate |
| 890MSR | 600 (10500) | Polyester | Fiberglass | 6.0 (0.152) | Modified Synthetic Rubber | 90 (99) | 3 | Clear | Metal coil closure; Good adhesion to oily surfaces |
| 898 | 380 (6655) | Polypropylene | Fiberglass | 6.6 (0.168) | Synthetic Rubber | 70 (77) | 5 | Clear | L-Clip box closure, General bundling and reinforcing; Very high strength, Versatile, Good adhesion to many substrates |
| 8988 | 380 (6655) | Polypropylene | Fiberglass | 6.9 (0.175) | Synthetic Rubber | 75 (82) | 3 | Clear | L-Clip box closure; Good adhesion to recycled corrugate |
| 898MSR | 380 (6655) | Polyester | Fiberglass | 6.0 (0.152) | Modified Synthetic Rubber | 90 (99) | 3 | Clear | Metal coil closure; Good adhesion to oily surfaces |
| 8981 | 380 (6655) | Polypropylene | Fiberglass | 6.6 (0.168) | Synthetic Rubber | 70 (77) | 3 | Clear | L-Clip box closure; Good adhesion to many substrates |
| 8919MSR | 380 (6655) | Polyester | Fiberglass | 7.0 (0.180) | Modified Synthetic Rubber | 100 (109) | 3 | Clear | Metal coil closure; Good adhesion to oily surfaces, Thicker backing for improved handling |
| 8983P | 380 (6655) | Polyester | Fiberglass | 6.0 (0.152) | Synthetic Rubber | 43 (47.1) | 3 | Clear | General bundling and reinforcing; Applications requiring lower adhesion |
| 8984 | 380 (6655) | Polypropylene | Fiberglass | 4.5 (0.120) | None | 0 (0) | 5 | Clear | Bundling materials where warnings and graphics cannot be removed; Applications requiring no adhesion |
| 899 | 360 (6305) | Polypropylene | Fiberglass | 6.6 (0.168) | Synthetic Rubber | 70 (77) | 5 | Red | General bundling and reinforcing; Red color for increased visible and detection |
| 893 | 300 (5254) | Polypropylene | Fiberglass | 6.0 (0.152) | Synthetic Rubber | 55 (60) | 4.5 | Clear | Box closing, palletizing, strapping, bundling and reinforcing; High strength |
| 894 | 300 (5254) | Polypropylene | Fiberglass | 6.0 (0.152) | Synthetic Rubber | 50 (55) | 4.5 | Black | Pipe bundling and other outdoor applications; High UV resistance |
| 880 | 270 (4728) | Polypropylene | Polyester | 7.7 (0.196) | Synthetic Rubber | 80 (88) | 19 | Clear/Red | Pipe and conduit, bundling and color coding; Excellent shock resistance |
| 880MSR | 270 (4728) | Polyester | Polyester | 7.7 (0.196) | Modified Synthetic Rubber | 95 (100) | 19 | Clear | Metal coil closure; Good adhesion to oily surfaces, High cut resistance |
| 896 | 240 (4203) | Polypropylene | Fiberglass | 5.4 (0.137) | Synthetic Rubber | 60 (66) | 3 | White | Heavy box closure, general bundling and reinforcing; White boxes, Color coding |
| 8916V | 210 (3678) | Polypropylene | Fiberglass | 6.8 (0.172) | Synthetic Rubber | 75 (82) | 3 | Blue | Appliance, Secure and stabilize parts; Clean removal, Thicker backing |
| 897 | 170 (2977) | Polypropylene | Fiberglass | 6.0 (0.152) | Synthetic Rubber | 60 (65) | 3 | Clear | Box closing, palletizing, strapping, bundling and reinforcing; Medium strength |
| 892 | 170 (2977) | Polypropylene | Fiberglass | 5.5 (0.140) | Synthetic Rubber | 60 (65.4) | 3 | Clear | Carpet bundling; Medium strength |
| 8916 | 170 (2977) | Polypropylene | Fiberglass | 6.0 (0.150) | Synthetic Rubber | 75 (82) | 3 | Clear | Appliance, Secure and stabilize parts; Clean removal, High adhesion |
| 8915 | 170 (2977) | Polypropylene | Fiberglass | 6.0 (0.150) | Synthetic Rubber | 65 (71) | 3 | Clear | Appliance, Secure and stabilize parts; Clean removal |
| 8959 | 150 (2627) | Polypropylene | Bi-Directional Fiberglass | 5.7 (0.145) | Synthetic Rubber | 100 (109) | 6 | Clear | Heavy box closure, Splicing, Metal parts bundling; Bi-directional filament for excellent cut and puncture resistance; High adhesion |
| 8934 | 100 (1751) | Polypropylene | Fiberglass | 4.0 (0.102) | Synthetic Rubber | 60 (65) | 3 | Clear | Box closing, palletizing, strapping, bundling and reinforcing; Utility |
| 8932 | 95 (1664) | Polypropylene | Fiberglass | 4.3 (0.109) | Synthetic Rubber | 50 (55) | 3 | Clear | Box closing, palletizing, strapping, bundling and reinforcing; Utility |

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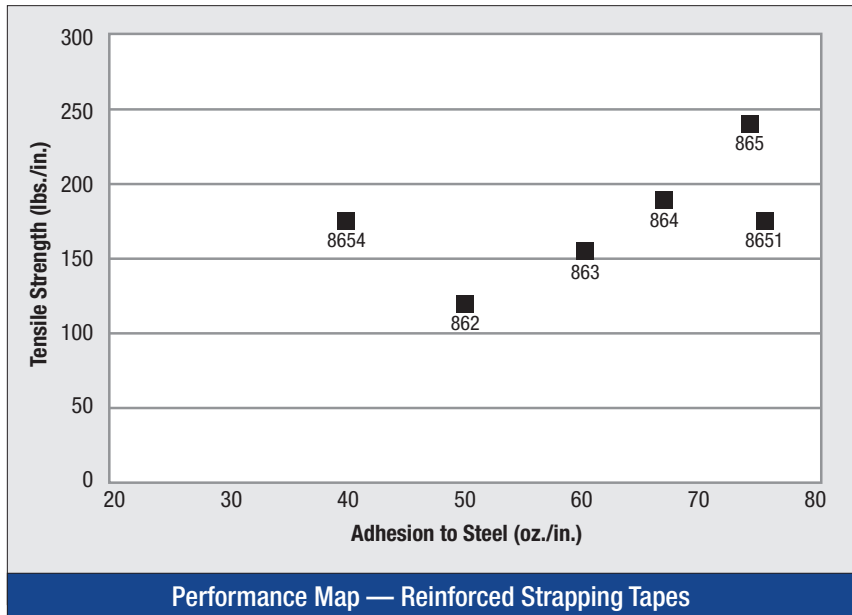
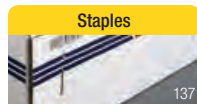
Scotch® Reinforced Strapping Tapes

The CLEAREST High-Strength Tape Available



Why 3M?

- **Strong:** Patented tape construction, polypropylene backing extruded to create monofilament “ribs”
- **Secure:** Resists nicking, cutting, tearing or puncturing during handling
- **Clear:** No filaments to obstruct graphics



| Product | Clarity to Showcase Marketing Content | Barcode Scan-able | Resists Nicks | Resists Abrasion | Does it Scratch? |
|-------------------------------|---------------------------------------|-------------------|---------------|------------------|------------------|
| Reinforced Strapping Tape | Yes | Yes | Yes | Yes | No |
| Reinforced Gummed Paper Tape | No | No | Yes | Somewhat | No |
| Staples | Somewhat | No | n/a | n/a | Yes |
| Filament Tape | Somewhat | No | Yes | Yes | No |
| Tensilized Polypropylene Tape | No | No | No | Yes | No |

| Product | Tensile Strength lb/in (N/100 mm) | Backing Material | Reinforcement | Total Thickness mils (mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) | Elongation (%) | Color | Typical Use and Comments |
|------------------|-----------------------------------|------------------|---------------|---------------------------|------------------|------------------------------------|----------------|-------------|--|
| ASTM Test Method | D-3759 | | D-3652 | | | D-3330 | | | |
| 865 | 240 (4200) | Polypropylene | Polypropylene | 6.4 (0.163) | Synthetic Rubber | 74 (80) | 30 | Clear | Palletizing; L-Clip box closure; High clarity for use on highly graphic boxes; Bar code readable |
| 864 | 190 (3325) | Polypropylene | Polypropylene | 5.6 (0.142) | Synthetic Rubber | 67 (73) | 30 | Clear | Palletizing; L-Clip box closure; High clarity for use on highly graphic boxes; Bar code readable |
| 8651 | 175 (3064) | Polypropylene | Polypropylene | 5.6 (0.142) | Synthetic Rubber | 75 (82) | 30 | Clear | Palletizing; L-Clip box closure; High clarity for use on highly graphic boxes; Bar code readable |
| 8654 | 175 (3064) | Polypropylene | Polypropylene | 5.6 (0.142) | Synthetic Rubber | 40 (44) | 30 | Clear | Cold temperature applications 35–50°F (2–13°C) |
| 863 | 155 (2713) | Polypropylene | Polypropylene | 5.0 (0.127) | Synthetic Rubber | 60 (65) | 30 | Clear | Palletizing; L-Clip box closure; High clarity for use on highly graphic boxes; Bar code readable |
| 862 | 120 (2100) | Polypropylene | Polypropylene | 4.6 (0.117) | Synthetic Rubber | 50 (54) | 30 | Clear/Black | Pipe Bundling; Black for UV resistance |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Tensilized Polypropylene Tapes

Clean Removal

- MOPP (monoaxially-oriented polypropylene) tape construction
- High strength tapes that hold firm, remove cleanly with no adhesive residue
- Great adhesion to vinyl and other plastics, glass, and metals that are painted, unpainted, or powder coated
- Holds shelving, racks, doors, panels, cords, other parts in place, from plant to install



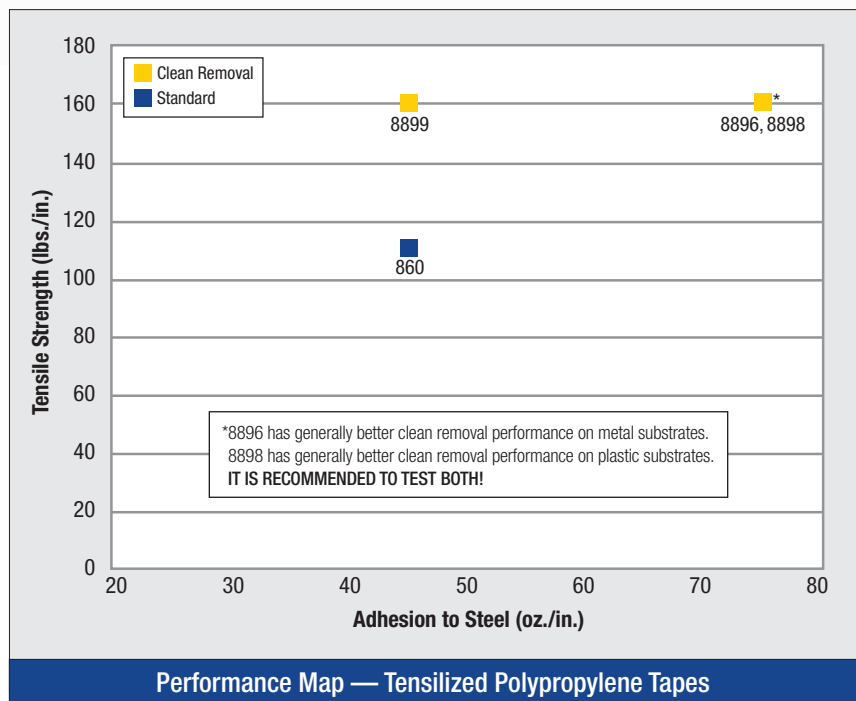
Bundle plastic, metal, stainless steel, glass, powdercoat or other coated electronic, appliance or automotive parts during assembly and transportation.



Hold packaging materials, spacers, corner boards, power cords and other hard-to-manage parts firmly in place.



Appliance racks, shelves, drawers and doors can be secured, from plant to install, then removed cleanly with no adhesive residue.



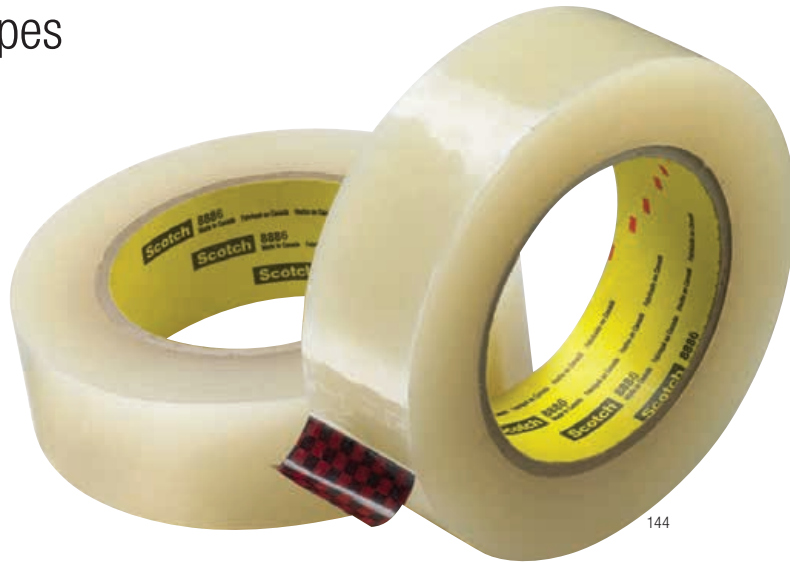
| Product | Tensile Strength lb/in (N/100 mm) | Backing Material | Reinforcement | Total Thickness mils (mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) | Elongation (%) | Color | Typical Use and Comments |
|-------------------------|-----------------------------------|------------------|---------------|---------------------------|------------------|------------------------------------|----------------|-------------------------|---|
| ASTM Test Method | D-3759 | | | D-3652 | | D-3330 | | | |
| 8898 | 160 (2802) | Polypropylene | None | 4.6 (0.12) | Synthetic Rubber | 75 (82) | 32 | Blue/Ivory | Appliance, Secure and stabilize parts; Clean removal, High adhesion |
| 8896 | 160 (2802) | Polypropylene | None | 4.6 (0.12) | Synthetic Rubber | 70 (77) | 32 | Blue/Ivory | Appliance, Secure and stabilize parts; Clean removal |
| 8899 | 160 (2802) | Polypropylene | None | 4.6 (0.12) | Natural Rubber | 45 (49) | 32 | Blue/Ivory/White/Orange | Appliance, Secure and stabilize parts; Excellent clean removal and high/low temperature performance |
| 860 | 110 (1926) | Polypropylene | None | 2.8 (.071) | Synthetic Rubber | 45 (49) | 33 | Black | General bundling and strapping; Utility grade for pallet unitizing |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Scotch® Stretchable Tapes

Tape That Gets Stronger As It's S-T-R-E-T-C-H-E-D

- Adhesive “de-tackifies” when stretched: holds in place but won’t damage carton graphics, shipping instructions or other pallet information when removed
- 650% stretch factor: 5-meter roll yields 357 meters of tape
- Creates ventilated load for shipment of time- and temperature-sensitive goods
- More stability — less waste



144



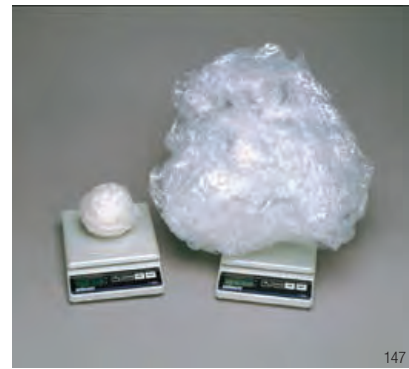
145

High yield! One 55-meter roll can unitize 60 or more A- or B-style pallets for intra-plant movement.



146

“X”-pattern can contain loads for shipment anywhere.



147

Less waste! Compare the 3M™ Stretchable Tape waste “ball” on the left versus the size of typical stretch film waste on the right.



148



149



89

Scotch® Stretchable Tape Dispenser H38

Hand-held dispenser with tensioning/stretching brake for use with Scotch® Stretchable Tapes.

| Product | Tensile Strength lb/in (N/100 mm) | Backing Material | Total Thickness mils (mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) | Elongation (%) | Color | Comments |
|------------------|--------------------------------------|---------------------|------------------------------|------------------|---------------------------------------|-------------------|-------|---|
| ASTM Test Method | D-3759 | | D-3652 | | D-3330 | | | |
| 8886 | 28 (490) | Polyethylene | 6.6 (0.168) | Synthetic Rubber | 65 (71) | 720 | Clear | Load containment |
| 8884 | 20 (350) | Polyethylene | 5.0 (0.127) | Synthetic Rubber | 70 (77) | 710 | Clear | Palletizing for intra-plant movement; Load containment; For hand application using Scotch® Stretchable Tape Dispenser H38 |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

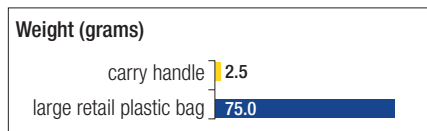
Custom Packaging Solutions



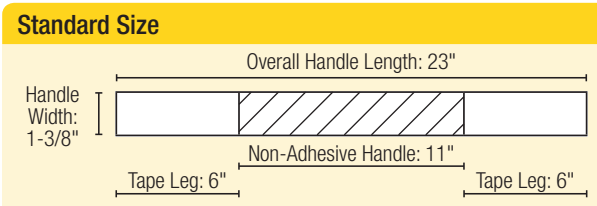
3M™ Carry Handles — Applied at Retail Checkout

Convenience For Your Customer

- Quickly and easily transform bulky purchases into travel-friendly packages
- Custom print! Put your BRAND in consumer's hands
- Custom size to meet your store profile
- Great alternative to large retail shipping bag. Save a bag...offer a handle



Reduce plastic waste by 97% by offering a carry handle.



| Product | Weight Holding Capacity (lbs) | Tape Material | Total Thickness mils (mm) | Tensile Strength lb/in (N/100 mm) | Adhesive Type | Adhesion oz/in (N/100 mm) | Pads per Case | Handles per Case | Handle (width x length) | Tape Leg Length |
|--|-------------------------------|---------------------------|---------------------------|-----------------------------------|------------------|---------------------------|---------------------------|------------------|-------------------------|-----------------|
| 3M™ Carry Handles — Padded for Individual Application | | | | | | | 25 Handles per Pad | | | |
| 8305 | 5 | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) | 220 | 5500 | 1/2" x 10" | 1" |
| 8310 | 10 | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) | 110 | 2750 | 1" x 17" | 3" |
| 8315 | 15 | Polypropylene | 3.2 (0.081) | 35 (613) | Synthetic Rubber | 55 (60) | 80 | 2000 | 1-3/8" x 23" | 6" |
| 8320 | 20 | Polyester | 3.5 (0.089) | 67 (1174) | Synthetic Rubber | 78 (85) | 110 | 2750 | 1" x 17" | 3" |
| 8330 | 30 | Polyester | 3.5 (0.089) | 67 (1174) | Synthetic Rubber | 78 (85) | 80 | 2000 | 1-3/8" x 23" | 6" |
| 8340 | 40 | Reinforced Strapping Tape | 5.6 (0.142) | 190 (3325) | Synthetic Rubber | 67 (73) | 80 | 2000 | 1-3/8" x 23" | 6" |
| 8350 | 50 | Filament Tape | 7.7 (0.196) | 270 (4728) | Synthetic Rubber | 80 (88) | 80 | 2000 | 1-3/8" x 23" | 6" |

3M™ Carry Handles — Pre-Applied By Manufacturer

Give Your Products a Lift

- Differentiate your on-shelf appeal — customers will associate convenience with your brand
- Customers will **select** and **pick up** your brand
- Printed handles **communicate** — drive brand awareness, augment or replace other package information
- **Convenience:** Promo packs and up-sized SKUs can be easily carried from store to car or bus to home or office
- Ask your 3M Packaging Specialist for details on automated application equipment



3M™ Carry Handle Tape 8347



| Product | Weight Holding Capacity (lbs) | Tape Material | Adhesive Type | Adhesion oz/in (N/100 mm) | Tensile Strength lb/in (N/100 mm) | Total Thickness mils (mm) | Roll Type | Roll (W x L) | Core Dia. |
|--|-------------------------------|---------------|------------------|---------------------------|-----------------------------------|---------------------------|-------------|--------------|-----------|
| 3M™ Carry Handles — Long-Length Rolls for In-Line Automated Application | | | | | | | | | |
| 8347 | 20 | Polypropylene | Synthetic Rubber | 50 (55) | 103 (1800) | 2.56 (0.065) | Level-wound | 1" x 5470 yd | 6" |
| 8346HP | 20 | Polyester | Synthetic Rubber | 52 (57.0) | 67 (1174) | 3.4 (0.086) | Level-wound | 25mm x 3000m | 6" |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Scotch® Multipack Tapes

Economical and Sustainable Alternative to Shrink Films, Banding, Boxes and Bags

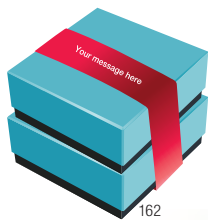
- Effective, low-cost way to bundle consumer products into multipacks and value packs
- Significant reduction in consumer waste
- Clear, strong tape holds firmly and removes cleanly without damaging the primary package graphics
- Custom-print tape option delivers your branding and promotional messaging, multipack barcoding



Marketing messages can be custom printed on this transparent, repositionable tape.

Discrete adhesion highlights primary packaging.

A Full Selection of Bundling Options



Stacked



Side-by-Side



Upright



Custom

Carry handle option for convenience

Environmental Impact

See the comparison between the Scotch® Multipack Tape 694 and the shrink wrapped grouping: 5,000,000 kits of three 400mL packages per year.

Multipack Solution



10,064 lbs.
(4,565 kg)
of plastic/year

Shrink Wrapped



vs.

23,479 lbs.
(10,650 kg)
of plastic/year

Reduction of
13,415 lbs.
(6,085 kg)
of plastic/year



Represents 304,000 water bottles.
Average of 20g/500mL bottle. For illustrative purposes only.

Learn more about the cost saving Multipack Solution online. You'll find a packaging video, a cost-savings calculator, and both tape and equipment details at 3M.com/Multipack

| Product | Color | Backing Material | Backing Thickness mils (mm) | Total Thickness mils (mm) | Tensile Strength lb/in (N/100 mm) | Adhesive Type | Adhesion to Steel oz/in (N/100 mm) | Elongation (%) | Comments |
|---------|-------|------------------|-----------------------------|---------------------------|-----------------------------------|---------------|------------------------------------|----------------|--|
| 694 | Clear | Polypropylene | 1.6 (0.040) | 1.9 (0.049) | 23 (409) | Acrylic | 4.78 (5.23) | 77 | Clean removal tape designed for multi-unit primary packaging; Apply manually or use automated with equipment |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Bag Sealing Tapes

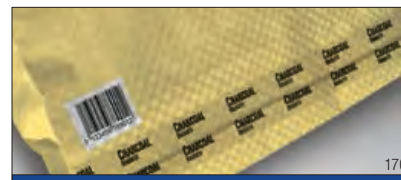
Stronger, Faster, Clearer Closure for Eye-Popping Woven Polypropylene Bags

Featuring tough, transparent tapes that instantly seal a wide range of bag types and materials. Scotch® Bag Sealing Solutions can accelerate your entire end-of-line operation, while improving the visual impact of your packaging.

- Cut downtime and potentially **double** your throughput over traditional bag closing systems
- Improve bag appearance and enhance shelf appeal with woven polypropylene bags
- Eliminate the hassles of traditional mechanical stitchers and the messy glue pots that come with adhesive closure systems
- Give customers an easy-open alternative
- Reduce bag leakage and improve quality control



3M™ Transparent Film Tape 8470 with Scotch® Easy Open Tear Strip Tape 8622



Custom printed tape for proof of factory seal

| Product | Color | Backing Material | Backing Thickness mils (mm) | Total Thickness mils (mm) | Tensile Strength lb/in (N/100 mm) | Adhesive Type | Adhesion to Steel oz/in (N/100 mm) | Elongation (%) | Comments |
|---------|-------|--------------------------|-----------------------------|---------------------------|-----------------------------------|-------------------------------|------------------------------------|----------------|---|
| 8469 | Clear | Polyester | 2.2 (0.051) | 3.0 (0.076) | 63 (1104) | Synthetic Rubber | 75 (81) | 130 | Excellent tear, impact and abrasion resistance; 8469CP is a custom printed version |
| 8469CP | | | | | | | | | |
| 8470 | Clear | Polypropylene | 2.0 (0.051) | 3.1 (0.079) | 36 (615) | Synthetic Rubber | 55 (60) | 160 | Good adhesion to variety of surfaces including polypropylene, paper, polyethylene; 8470CP is a custom printed version |
| 8470CP | | | | | | | | | |
| 8622 | Red | Reinforced Polypropylene | 8.4 (0.21) | | 190 (3320) | n/a No Functional Adhesive | | 30 | Easy open feature when used with Scotch® Film Tape for heavy bag sealing |

3M™ Tape Pads

No Dispenser? No Problem!

- **Portable** “peel and stick” convenience, 25 sheets per pad
- **Adheres** to bags, boxes, plastic film, powder coats, metals and glass
- **Removable tab** for easy handling
- **Stores easily** in pockets, drawers, tool boxes and part carts
- Used to repair, patch, seal, protect, reinforce, close and trap



3M™ Packaging Tape Pad 3750P



3M™ Tape Sheets 822

| Product | Sheet Size(s) | Color | Tape Material | Total Thickness mil (mm) | Tensile Strength lb/in (N/100 mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) | Elongation (%) | Tab |
|---------|---------------------------------|--------------------------|-------------------------|--------------------------|-----------------------------------|------------------|------------------------------------|----------------|------------------------|
| 822 | 4" x 6" | Transparent | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) | 160 | Removable |
| 3750P | 2" x 6" | Transparent | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) | 160 | Removable |
| 819 | 4" x 6" | Clear | Bi-Directional Filament | 5.7 (0.145) | 150 (2627) | Synthetic Rubber | 100 (109) | 6 | Removable |
| 802 | 2" x 4", 2" x 6", 4" x 6" | Matte | Acetate | 2.0 (0.051) | 15 (265) | Repositionable | 1.5 (1.6) | 15 | Removable |
| 809G | Custom Size | Transparent, Red, Yellow | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) | 160 | Removable or Permanent |
| 809GP | Custom Size w/Custom Print | Transparent, Red, Yellow | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) | 160 | Removable or Permanent |
| 809S | Custom Size, w/Custom Backsheet | Transparent | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) | 160 | Removable or Permanent |

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3M™ Marking and Identification Tags

Industrial-Strength Tape “Flags”

- Use for flagging, marking, identifying and special messaging
- Draw attention to quality defects, special handling or instructions
- Clear adhesive tape on one end, color-coded or custom-printed tag on the other end
- Strong polypropylene tape holds up under rough handling for labeling, banding, price tagging



| Product | Tag Size | Custom Size Availability | Colors Available | Printed Message | Applications | Material Type | Total Thickness mils (mm) | Tensile Strength lb/in (N/100 mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) |
|---------|-------------|--------------------------|--------------------------|-----------------|--------------|---------------|---------------------------|-----------------------------------|------------------|------------------------------------|
| 818 | 3/8" x 2" | Yes | Red, White, Blue, Yellow | None | 25 per Pad | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) |
| | 1" x 4" | Yes | Red, White, Blue, Yellow | None | 25 per Pad | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) |
| 818CP | Custom Size | — | Red, White, Blue, Yellow | Custom Print | 25 per Pad | Polypropylene | 3.1 (0.079) | 35 (613) | Synthetic Rubber | 55 (60) |

3M™ Hang Tabs

- Clear, durable, polyester tabs with a pressure-sensitive adhesive for easy in-store repair of damaged packaging such as torn punches in chipboard header cards
- Clear tabs do not obscure packaging graphics — showcases existing packaging graphics and messaging
- Pre-cut, bendable tab format for convenience and ease of use
- Sticks to most product or packaging surfaces for store display applications

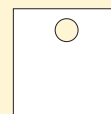


Hole Styles



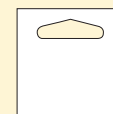
J-Hook

Consumer-friendly option, encourages item selection from anywhere on peg



Round Hole

For single-wire pegs



Delta Hole

For wider double-wire pegs or self-centers on standard pegs

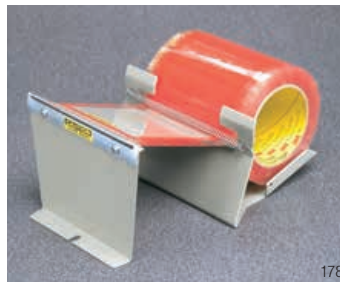
| Product | Size (height x width) | Hole Style | Color | Hang Tabs per Pad | Backing Material | Total Thickness mil (mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) |
|---------|-----------------------|------------|-------|-------------------|------------------|--------------------------|------------------|------------------------------------|
| 1072 | 7/8" x 1-3/8" | J-Hook | Clear | Individual | Polyester | 25.8 (0.66) | Synthetic Rubber | 175 (192) |
| 1074 | 1" x 2" | Round | Clear | 10 per pad | Polyester | 13.5 (0.34) | Synthetic Rubber | 55 (60) |
| 1075 | 2" x 2" | Delta | Clear | 10 per pad | Polyester | 13.5 (0.34) | Synthetic Rubber | 55 (60) |
| 1076 | 2" x 2" | Round | Clear | 10 per pad | Polyester | 13.5 (0.34) | Synthetic Rubber | 55 (60) |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Scotch® Pouch Tapes

Strong, Low-Profile Attachment Solution

- “Trap it” with unique 3M tape construction — strong adhesive tape area on the edges frame the large, clear non-adhesive window area in the middle
- Attach documents, packing lists, invoices, literature, catalogs, brochures, or even product samples, small part packets or other merchandise
- Polypropylene backing/synthetic rubber adhesive sticks well to corrugate and many other substrates
- Custom-print option can personalize your message



Scotch® Pouch Tape Dispenser M727 with Scotch® Pouch Tape 824 — Available in rolls for easy dispensing at pack stations.



Scotch® Pouch Tape Sheets 830 — Available in pads for portable back-pocket convenience. No liners help keep work areas clean of debris.

| Product | Individual Pouch Size (h x w) | Printed Message | Applications | Core Size | Material Type | Total Thickness mils (mm) | Tensile Strength lb/in (N/100 mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) | Dispenser Options |
|--------------|-------------------------------|-----------------------------|--------------|-----------|---------------|---------------------------|-----------------------------------|------------------|------------------------------------|-------------------|
| Pads | | | | | | | | | | |
| 830 | 5" x 6" | "Documents Enclosed" | 25 per pad | — | Polypropylene | 2.5 (0.064) | 30 (525) | Synthetic Rubber | 50 (55) | — |
| 8240P | 5" x 6" | "Packing List Enclosed" | 25 per pad | — | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | — |
| 830CP | 5" x 6" | Custom Print | 25 per pad | — | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | — |
| 832 | 6" x 10" | "Documents Enclosed" | 25 per pad | — | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | — |
| 832CP | 6" x 10" | Custom Print | 25 per pad | — | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | — |
| Rolls | | | | | | | | | | |
| 824 | 5" x 6" | "Documents Enclosed" | 333 per roll | 3" | Polypropylene | 2.5 (0.064) | 30 (525) | Synthetic Rubber | 50 (55) | M727 or M797 |
| 8240 | 5" x 6" | "Documents Enclosed" | 500 per roll | 3" | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | M727 or M797 |
| 825 | 5" x 6" | "Documents Enclosed" | 250 per roll | 1" | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | — |
| | 5" x 8" | "Documents Enclosed" | 500 per roll | 3" | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | M727 or M797 |
| 827 | 6" x 8" | "Documents Enclosed" | 500 per roll | 3" | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | M797 |
| | 6" x 10" | "Documents Enclosed" | 400 per roll | 3" | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | M797 |
| 829 | 5" x 8" | "Packing List Enclosed" | 333 per roll | 3" | Polypropylene | 1.9 (0.048) | 22 (385) | | 40 (44) | M727 or M797 |
| 828CP | 144 mm x 254 mm | Custom Print Custom Size | — | 3" | Polypropylene | 2.5 (0.064) | 30 (525) | | 50 (55) | M797 |

Label Protection Tapes

Protect Labeled Shippers, Mailers, Envelopes, Tubes, Drums, Tubs

- Tape material options for use on wide range of substrates, in many applications including outdoor use
- High clarity for sharp read-through accuracy
- Bright color tape option draws attention to important label content



| Product | Roll Width(s) Available | Roll Length | Color | Backing Material | Total Thickness mils (mm) | Tensile Strength lb/in (N/100 mm) | Adhesive Type | Adhesion Strength oz/in (N/100 mm) | Elongation (%) | Comments |
|---------|--------------------------|-------------|---------------|------------------|---------------------------|-----------------------------------|------------------|------------------------------------|----------------|--|
| 356 | 1", 2", 3", 4", 6" | 72 yd. | Clear | Polyester | 1.6 (0.041) | 25 (438) | Acrylic | 20 (22) | 90 | Excellent transparency and resistance to abrasion, moisture and chemicals; Go-to option for outdoor applications |
| 821 | 2", 3", 4", 5", 6" | 72 yd. | Pink | Acetate | 2.5 (0.063) | 12 (210) | Acrylic | 25 (27) | 15 | Low-glare matte finish. Write-on surface; Hand-tearable — no dispenser needed |
| 823 | 96mm | 66m | Bright Yellow | Polypropylene | 2.4 (0.060) | 30 (525) | Synthetic Rubber | 60 (65) | 160 | Bright yellow color draws attention; Excellent transparency |
| 3565 | 72mm, 96mm, 120mm, 144mm | 100m | Clear | Polypropylene | 1.9 (0.048) | 22 (385) | Synthetic Rubber | 40 (44) | 160 | Excellent transparency and conformability; Resists tearing, splitting, moisture, abrasion and smudges |
| 3765 | 96mm, 120mm, 144mm | 132m | Clear | Polypropylene | 1.5 (0.038) | 20 (350) | Acrylic | 22 (24) | 119 | Good transparency; Recommended for cold temperature applications |

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3M™ Packing List Envelopes

Wide Variety of Choices for Document Control and Protection

- Convenient peel-and-stick document protection
- Non-printed and printed with standard messages
- Custom sizes and/or custom printed messages
- Reclosable 3M™ Zipper Closure Envelope is available in two sizes
- Polyethylene backing/synthetic rubber adhesive/paper liner
- Backing thickness: 2.0 mil;
Total thickness: 5.0 mil



Easy Inspection — For cross border shipping and other inspection situations, zipper closure envelopes open easily and close securely. Tough construction resists moisture and abrasion.



Secure Adhesion — High tack pressure sensitive adhesive on the back of the envelope grabs on contact and holds securely even to curved and flexible surfaces.



T (Top Printed)

| | | |
|--|---|--|
| <p>T1 PACKING LIST/ INVOICE ENCLOSED 4.5" x 5.5" 1,000/case</p>  <p>side-load</p> | <p>T1 INV INVOICE ENCLOSED 4.5" x 5.5" 1,000/case</p>  <p>side-load</p> | <p>T3 PACKING LIST/ INVOICE ENCLOSED 7" x 5.5" 1,000/case</p>  <p>top-load</p> |
| <p>T1 PL PACKING LIST ENCLOSED 4.5" x 5.5" 1,000/case</p>  <p>side-load</p> | <p>T2 PACKING LIST/ INVOICE ENCLOSED 4.5" x 6" 1,000/case</p>  <p>side-load</p> | <p>T4 PACKING LIST/ INVOICE ENCLOSED 5.5" x 10" 1,000/case</p>  <p>side-load</p> |

NP (Non-Printed)

| | |
|---|--|
| <p>NP1 NO PRINT (CLEAR) 4.5" x 5.5" 1,000/case</p>  <p>side-load</p> | <p>NP6 NO PRINT (CLEAR) 9.5" x 12" 1,000/case</p>  <p>side-load</p> |
| <p>NP2 NO PRINT (CLEAR) 4.5" x 6" 1,000/case</p>  <p>side-load</p> | <p>NP9 NO PRINT (CLEAR) 7" x 6" 1,000/case</p>  <p>top-load</p> |
| <p>NP3 NO PRINT (CLEAR) 5.5" x 7" 1,000/case</p>  <p>top-load</p> | <p>FED1 NO PRINT (PERFED) 6.75" x 10.75" 500/case</p>  <p>top-load</p> |
| <p>NP4 NO PRINT (CLEAR) 5.5" x 10" 1,000/case</p>  <p>side-load</p> | <p>NP5 NO PRINT (CLEAR) 7" x 10" 1,000/case</p>  <p>side-load</p> |

F (Full Face Printed)

| |
|--|
| <p>F1 PACKING LIST/ INVOICE ENCLOSED 4.5" x 5.5" 1,000/case</p>  <p>side-load</p> |
| <p>F1 PL PACKING LIST ENCLOSED 4.5" x 5.5" 1,000/case</p>  <p>side-load</p> |

Zipper Closure Envelope

| | |
|--|--|
| <p>NPZL NO PRINT (CLEAR) 8.5" x 11.5" 500/case</p> | <p>NPZXL NO PRINT (CLEAR) 10" x 12.5" 500/case</p> |
|--|--|



side-load

Scotch® Tear Strip Tapes

Easy Access With a Simple Pull

For easy opening of packages ranging from overnight envelopes to corrugated fiberboard, the recipient simply grabs and pulls the exposed end of a Scotch® Tear Strip Tape.

- Tensilized polypropylene tears through paper board and light to heavy weight fiber board with high pull-rate success
- Eliminates knives or other sharp edges from opening envelopes and panels



For overnight courier envelopes and mail order boxes, Scotch® Tear Strip Tape 8621 provides superior resistance to edge nicking and tearing compared to other film tear strip tapes without reinforcement.



Scotch® Tear Strip Tape 8626 with superior tensile strength tears through medium to heavy weight corrugated fiberboard as used in household detergent boxes.

| Product | Backing Material | Reinforcement | Adhesive Type | Tensile Strength lb/in (N/100 mm) | Total Thickness mils (mm) | Adhesion Strength oz/in (N/100 mm) | Elongation (%) | Color | Comments |
|-------------------------|------------------|---------------|------------------|-----------------------------------|---------------------------|------------------------------------|----------------|-----------|---|
| ASTM Test Method | | | | D-3759 | D-3652 | D-3330 | | | |
| 8621 | Polypropylene | Polypropylene | Synthetic Rubber | 160 (2802) | — | 64 (70) | 30 | White | Reinforced tear strip for improved nick resistance on a wide range of light- to heavy-weight paperboard and corrugated fiberboard |
| 8622 | Polypropylene | Polypropylene | None | 190 (3327) | 8.4 (0.21) | 0 (0) | 30 | Red/Clear | Easy open feature when used with Scotch® Film Tape for heavy bag sealing |
| 8624 | Polypropylene | None | Synthetic Rubber | 160 (2802) | 4.5 (0.114) | 65 (71) | 30 | Blue | Medium-strength tear strip for light- to medium-weight fiberboard packaging materials |
| 8626 | Polypropylene | None | Synthetic Rubber | 220 (3853) | 6.2 (.157) | 75 (82) | 30 | Ivory | Heavy duty high-strength tear strip for medium to heavy-weight fiberboard packaging materials |
| 8640 | Polypropylene | Polypropylene | Synthetic Rubber | 190 (3327) | 5.6 (0.14) | 67 (73) | 30 | Clear | Excellent tear control, helps maintain tear integrity and direction |

Scotch® Bag Conveying Tapes

- A high performance tape designed to convey a food grade preservation bag through the bag manufacturer's forming and packaging process
- Product constructions with or without reinforcement can meet a range of price/performance needs
- The pressure sensitive adhesive is specifically formulated to provide consistent adhesion to polyethylene



Scotch® Bag Conveying Tape 8365

| Product | Tensile Strength lb/in (N/100 mm) | Backing Material | Reinforcement | Adhesive Type | Adhesion Strength oz/in (N/100 mm) | Total Thickness mils (mm) | Elongation (%) | Color | Width(s) | Core Size |
|-------------------------|-----------------------------------|------------------|---------------|------------------|------------------------------------|---------------------------|----------------|-------|----------|-----------|
| ASTM Test Method | | D-3759 | | | D-3330 | | D-3652 | | | |
| 8631 | 160 (2800) | Polypropylene | Polypropylene | Synthetic Rubber | 67 (73) | — | 30% | Clear | 1/4" | 6" |
| 8635 | 140 (2452) | Polyethylene | None | Synthetic Rubber | 62 (68) | 4.0 (0.102) | 60% | Black | 6mm, 9mm | 6" |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Remote Sensing Tapes

3M™ Prismatic Remote Sensing Target 3000X

- Micro-cube corner sheeting made of a flexible synthetic resin which will perform well with polarized light
- Smooth, clear surface can be cleaned easily
- Aggressive pressure sensitive adhesive provides an excellent bond to most clean, wax-free, dry, relatively non-porous, weather resistant surfaces
- Adhesive is protected by a liner which is removed at the time of application and the reflector is pressed into position



3M™ Retroreflective Materials make it easy to design sensing systems based on simple, inexpensive photoelectric sensors. They increase readability, range and accuracy with greater control.

3M™ Scotchlite™ Photoelectric Grade Smooth Surface Sheeting 7590

- Durable, flexible, wide angle, smooth-surface, retroreflective sheeting, specially designed for use in photoelectric applications such as retroreflective labels or marks
- Sheeting consists of special lens elements enclosed within a transparent resin, having a smooth flat outer surface and is supplied with a low-temperature, pressure-sensitive adhesive protected by a removable liner



3M™ Scotchlite™ Photoelectric Grade Smooth Surface Sheeting 7590

3M™ Scotchlite™ High Gain Reflective Sheeting 7610

- High gain reflective industrial grade sheeting, exposed-lens, retroreflective, plastic-based material, pre-coated with a pressure-sensitive adhesive
- Adhesive is covered with a removable protective liner that offers a very high retroreflective efficiency and small optical elements

Scotch® Photoelectric Scanning Tape 7800

- Exposed-lens retroreflective tape with a pressure-sensitive adhesive that is designed for use as expendable code marks in automatic warehouse or conveyor operations
- This product affords exceptional contrast with its background for increased accuracy, reliability, and depth-of-field in photoelectric sorting and classification systems and may be employed with automatic on-line applicators or manual dispensers for identification or simple sortation of paperboard shipping containers



Scotch® Photoelectric Scanning Tape 7800

| Product | Tape Structure (Backing/Adhesive) | Liner | Format | Typical Luminance Factor | | Thickness – Applied (in.) | Temperature Resistance – Intermittent °F (°C) | Lens | Color |
|---------|---|-------|------------------|--------------------------|---------|---------------------------|---|-----------|---------------------------|
| | | | | -4 deg. | 45 deg. | | | | |
| 3000X | Micro-cube corner sheeting/ acrylic adhesive/paper liner | Yes | Sheets and Rolls | 1000x | 1500x | 0.020 | 150 (65.5) | Protected | White with linear pattern |
| 7590 | Sealed reflective tape/ low temperature synthetic resin/liner | Yes | Rolls | 200x | 80x | 0.007 | 400 (204) | Protected | Opaque White |
| 7610 | Exposed reflective tape/ synthetic resin/liner | Yes | Rolls | 900x | 700x | 0.004 | 250 (121) | Exposed | Light Gray |
| 7800 | Exposed-lens reflective tape/ synthetic resin/linerless | No | Rolls | 200x | 100x | 0.007 | 500 (260) | Exposed | Medium Gray |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Glossary

This glossary is compiled by the Pressure Sensitive Tape Council (PSTC) and 3M (terms identified with an asterisk). PSTC is the North American trade association for tape manufacturers and affiliate suppliers, dedicated to helping the industry produce quality pressure sensitive adhesive tape products in the global marketplace. Visit www.pstc.org for more information.

Abrasion Resistance

The ability of a tape to withstand rubbing and still function satisfactorily.

Acrylic Adhesive*

A pressure sensitive, viscoelastic blend of acrylic-based materials which may be modified by tackifying additives. Acrylic adhesives are a very broad class of materials and come in many types to achieve different properties.

Adhesion to Backing

The bond produced to the backing of the same tape or another tape backing.

Adhesive Deposit or Residue

Adhesive that is pulled away from the tape upon removal and remains on the surface to which it has been applied.

Adjustable Case Sealer

A case sealer that must be manually adjusted for box width and height. Accepts runs of one box size at a time.

Article Letters*

Letters if a MSDS does not exist on a product.

Backing

A relatively thin flexible material to which the adhesive is applied. Theoretically, any material that is reasonably flat, thin and flexible can be used as a tape backing.

Backsize

An occlusive coating applied to the non-pressure sensitive side of a porous backing, such as paper, in order to provide a satisfactory surface that the pressure sensitive adhesive side can contact when the tape is wound into a roll.

Caliper

The thickness (as of a sheet of paper) measured under specified conditions. See also THICKNESS.

Co-extruded*

Refers to film extruded in individual layers with the possibility of different raw materials in each layer providing unique combined film properties.

Conformability*

The ability for a tape to make arcs, circles, go into depressions, go over protrusions and still stay in one piece without slivering, tape lifting, necking down.

Containment

To confine and hold in place.

Controlled Unwind*

When a balance is achieved between too low of an unwind, allowing the tape to prematurely unwind from its own backing, or too high, causing premature slivering or breaking when unwinding from its roll.

Elastomer

An elastic, polymeric substance, such as natural or synthetic rubber.

Elongation (Stretch, Ultimate Elongation)

The distance a tape will stretch in the machine or cross direction before breaking under controlled conditions, expressed as a percentage of original length. Elongation is not necessarily an indication of conformability.

Extruded*

A manufacturing process where material is forced through a nozzle (like extruded film or backing). Better for lay-flat than skived.

FOL

Full overlap.

Filaments

Thin, longitudinal yarns or threads of glass, polyester, nylon or other high strength materials.

Holding Power (Shear Adhesion, Shear Resistance)

The ability of a tape to resist static forces applied in the same plane as the backing. Usually expressed in a time required for a given weight and length of tape to shear free from a vertical panel.

Hot Melt (Pressure Sensitive Adhesive)

A pressure sensitive adhesive, applied to the backing in hot liquid form, which then cools to form a conventional pressure sensitive adhesive.

Humidity

The moisture content of the air. Actual humidity is the number of grams of moisture in the air at any given time. Relative humidity is the percent of moisture relative to the maximum that air at any given temperature can retain without precipitation.

Impact Resistance (Shock Resistance)

The ability of a tape to resist sudden impacts, pulls, or shocks as may sometimes be encountered by packages in transit.

L-Clip

Tape seal applied over the edge of non-RSCs with one leg down the side and the other on the top and/or bottom.

Moisture Vapor Transmission Rate

A measure of the rate of water vapor transmission through a pressure sensitive product usually measured in grams per square meter per 24 hours.

MOPP

Monoaxially-oriented polypropylene tape construction.

NPE*

An NPE number is used to designate an experimental product. NPE products are often provided to customers for evaluation purposes only, and may or may not be commercialized.

Non-RCS

All box structures other than RSC (Regular Slotted Carton).

Off-Core

A roll of tape in which the layers are in correct alignment, but the tape is displaced sideways on the core.

Opacity

The ability of a tape to prevent the transmission of light.

Pad

Pre-cut, tape strips stacked on a pad for easy one-at-a-time removal.

*Compiled by 3M.

Glossary (cont.)

PE*

The abbreviation for polyethylene. Usually extruded in a single (mono) layer.

Peel Adhesion

The force per unit width required to break the bond between a pressure sensitive adhesive tape and the surface to which it has been applied when the tape is peeled back at a controlled angle at a standard rate and condition.

PLE

Packing List Envelope.

Pouch Tape

Tape with adhesive-free area within a perimeter of pressure sensitive adhesive. When applied the adhesive-free area forms a containment pouch.

PP*

Abbreviation for polypropylene. Usually manufactured as a single (mono) layer via a casting process.

Pressure Sensitive

A term commonly used to designate a distinct category of adhesive tapes and adhesives which in dry form (solvent/water free) are aggressively and permanently tacky at room temperature and that firmly adhere to a variety of dissimilar surfaces upon mere contact without the need of more than finger or hand pressure. These products require no activation by water, solvent, or heat in order to exert a strong adhesive holding force toward such materials as paper, plastic, glass, wood, cement, and metal. They have sufficient cohesive holding power and elastic nature so that, despite their aggressive tackiness, they can be handled with the fingers and removed from smooth surfaces without leaving a residue.

Quick Stick (Finger Tack, Initial Adhesion, Wet Grab)

See TACK.

Random Case Sealer

A case sealer that automatically adjusts for case width and height. Typically used for runs of different box sizes.

Recouperage

To salvage goods within a container that has broken or opened during shipment.

Release Force

The measure of the force required to separate a unit width of pressure sensitive tape from a release coated surface at a controlled angle and speed.

Remote Sensing

The technique or process of obtaining data or images from a distance.

Retroreflective

Surface, material, or device that reflects light back to its source.

RGT

Reinforced Gum Tape.

RSC

Regular Slotted Carton.

Rubber Adhesive*

A pressure sensitive, viscoelastic blend of polymeric rubber-based materials and tackifying resin. The rubber materials may be natural or synthetic. Rubber adhesives are a very broad class of materials and come in many types to achieve different properties.

Shear Adhesion

The time required, under specified test conditions (surface area, weight load), to slide a standard area of pressure sensitive tape from a standard flat surface in a direction parallel to the surface.

Single Faced (Coated)

A tape to which a pressure sensitive adhesive is applied to only one side of the backing.

Solvent/Chemical Resistant*

Ability to resist common solvents or chemicals.

Surface Energy (Surface Wetting Ability)

The measure of surface tension in dynes. The lower the surface energy of a substrate, the more difficult it becomes for an adhesive or coating to wet out that surface.

Tack

The property of a pressure sensitive adhesive that allows it to adhere to a surface under very slight pressure. It is determined by the ability of the adhesive to wet quickly the surface it contacts.

Tear Resistance

The force required to propagate a tear in a tape in a given direction after the tear has been initiated.

Telescoping

A sideways sliding of the tape layers, one over another, such that the roll looks like a funnel or a telescope, usually occurring over a period of time.

Tensile Strength

The force required to break a unit width of tape by controlled pulling on opposite ends of the piece.

Thickness (Caliper, Gauge)

The perpendicular distance from one surface of either a tape, backing or adhesive to the other, usually expressed in mils, thousandths of an inch or millimeters. This is usually measured under controlled slight pressure with a special gauge.

TSCA*

Toxic Substances Control Act.

U-Clip

Tape seal applied to an RSC carton with tape legs down both sides of the carton and across the center seam.

UL 723*

UL 723 deals mainly with flammability.

Unwind or Unwind Adhesion

The force required to remove tape from a roll under prescribed conditions.

Water Vapor Transmission (WVTR)

The weight of water vapor allowed through a controlled area of tape within a specified time period and under controlled conditions.

*Compiled by 3M.

Numerical Index

| | | | | | | | |
|-------------|----|-------------|--------|-----------------|----|--------------|--------|
| 200a..... | 8 | 800rks..... | 10 | 1072..... | 35 | 8240..... | 36 |
| 200a3..... | 8 | 802..... | 34 | 1074..... | 35 | 8240P..... | 36 |
| 302..... | 20 | 809G..... | 34 | 1075..... | 35 | 8305..... | 32 |
| 305..... | 20 | 809GP..... | 34 | 1076..... | 35 | 8310..... | 32 |
| 311..... | 20 | 809S..... | 34 | 3000X..... | 39 | 8315..... | 32 |
| 313..... | 20 | 818..... | 35 | 3071..... | 20 | 8320..... | 32 |
| 315..... | 20 | 818CP..... | 35 | 3071CP..... | 21 | 8330..... | 32 |
| 351..... | 20 | 819..... | 34 | 3072..... | 20 | 8340..... | 32 |
| 353..... | 20 | 821..... | 36 | 3072CP..... | 21 | 8346HP..... | 32 |
| 355..... | 20 | 822..... | 34 | 3073..... | 20 | 8347..... | 32 |
| 355CP..... | 21 | 823..... | 36 | 3073CP..... | 21 | 8350..... | 32 |
| 356..... | 36 | 824..... | 36 | 3199..... | 21 | 8469..... | 34 |
| 369..... | 20 | 825..... | 36 | 3565..... | 36 | 8469CP..... | 34 |
| 371..... | 20 | 827..... | 36 | 3721..... | 21 | 8470..... | 34 |
| 371CP..... | 21 | 828CP..... | 36 | 3723..... | 21 | 8470CP..... | 34 |
| 372..... | 20 | 829..... | 36 | 3732..... | 21 | 8621..... | 38 |
| 372CP..... | 21 | 830..... | 36 | 3734..... | 21 | 8622..... | 34, 38 |
| 373..... | 20 | 830CP..... | 36 | 3750P..... | 34 | 8624..... | 38 |
| 373CP..... | 21 | 832..... | 36 | 3765..... | 36 | 8626..... | 38 |
| 375..... | 20 | 832CP..... | 36 | 3771..... | 21 | 8631..... | 38 |
| 375CP..... | 21 | 856..... | 23 | 3772..... | 21 | 8635..... | 38 |
| 600..... | 23 | 860..... | 25, 29 | 3775..... | 21 | 8640..... | 38 |
| 605..... | 23 | 862..... | 25, 28 | 3779..... | 21 | 8651..... | 25, 28 |
| 610..... | 23 | 863..... | 28 | 5910..... | 23 | 8654..... | 28 |
| 640..... | 23 | 864..... | 28 | 6141..... | 21 | 8884..... | 30 |
| 660..... | 23 | 865..... | 28 | 6142..... | 21 | 8886..... | 30 |
| 681..... | 23 | 880..... | 25, 27 | 6143..... | 21 | 8896..... | 29 |
| 690..... | 23 | 880MSR..... | 27 | 6144..... | 21 | 8898..... | 25, 29 |
| 694..... | 33 | 890HD..... | 25, 27 | 6145..... | 21 | 8899..... | 29 |
| 700a-s..... | 8 | 890MSR..... | 25, 27 | 6146..... | 21 | 8915..... | 27 |
| 720..... | 23 | 890RCT..... | 27 | 6147..... | 21 | 8916..... | 27 |
| 800ab..... | 9 | 890SR..... | 27 | 7000a Pro..... | 8 | 8916V..... | 27 |
| 800ab3..... | 9 | 892..... | 27 | 7000a3 Pro..... | 8 | 8919MSR..... | 25, 27 |
| 800af..... | 9 | 893..... | 25, 27 | 7000r Pro..... | 10 | 8932..... | 25, 27 |
| 800af3..... | 9 | 894..... | 27 | 7000r3 Pro..... | 10 | 8934..... | 25, 27 |
| 800asb..... | 9 | 896..... | 27 | 7590..... | 39 | 8959..... | 27 |
| 800r..... | 10 | 897..... | 25, 27 | 7610..... | 39 | 8981..... | 27 |
| 800r3..... | 10 | 898..... | 25, 27 | 7800..... | 39 | 8983P..... | 27 |
| 800rf..... | 10 | 898MSR..... | 27 | 8000a..... | 9 | 8984..... | 27 |
| 800rf3..... | 10 | 899..... | 27 | 8000a3..... | 9 | 8988..... | 27 |

Numerical Index (cont.)

| | | | |
|---------------|---------------|---------------|---------------|
| a20.....8 | H12215 | HR8015 | P5215 |
| a20-s.....8 | H12315 | HR8315 | P52W15 |
| a80.....9 | H12815 | HR93315 | P5615 |
| a80-39 | H12915 | M8215 | P56W15 |
| a80b.....9 | H13015 | M9615 | P40015 |
| a80b-39 | H13115 | M70715 | P41015 |
| a80f.....9 | H13315 | M72715 | P44815 |
| a80f-39 | H15015 | M79715 | S6315 |
| a80-t.....9 | H15315 | M90015 | S63415 |
| C2215 | H18015 | M92015 | S86712 |
| C2315 | H18315 | NP137 | S867II.....12 |
| C2515 | H19015 | NP237 | T1.....37 |
| F137 | H19215 | NP337 | T1 INV.....37 |
| F1 PL.....37 | H32015 | NP437 | T1 PL.....37 |
| FED1.....37 | H175515 | NP537 | T2.....37 |
| H1015 | HB90115 | NP637 | T3.....37 |
| H1215 | HB90215 | NP937 | T4.....37 |
| H3815 | HB90315 | NPZL37 | W10015 |
| H12115 | HR2215 | NPZXL37 | W20015 |

Product Name Index

3M™ AccuGlide™ Taping Heads

| | |
|------------------|----|
| 2+ | 11 |
| 2+ SSTL | 11 |
| 3 | 11 |
| High Speed | 11 |
| LHB | 11 |
| NPH | 11 |

3M-Matic™ Adjustable Case Sealers

| | |
|------------------|---|
| 200a | 8 |
| 200a3 | 8 |
| 700a-s | 8 |
| 800ab | 9 |
| 800ab3 | 9 |
| 800af | 9 |
| 800af3 | 9 |
| 800asb | 9 |
| 7000a Pro | 8 |
| 7000a3 Pro | 8 |
| 8000a | 9 |
| 8000a3 | 9 |
| a20 | 8 |
| a20-s | 8 |
| a80 | 9 |
| a80-3 | 9 |
| a80b | 9 |
| a80b-3 | 9 |
| a80f | 9 |
| a80f-3 | 9 |
| a80-t | 9 |

3M-Matic™ Random Case Sealers

| | |
|------------------|----|
| 800r | 10 |
| 800r3 | 10 |
| 800rf | 10 |
| 800rf3 | 10 |
| 800rks | 10 |
| 7000r Pro | 10 |
| 7000r3 Pro | 10 |

Bag Conveying Tapes

| | |
|------------|----|
| 8631 | 38 |
| 8635 | 38 |

Bag Sealing Tapes

| | |
|--------------|----|
| 8469 | 38 |
| 8469CP | 38 |
| 8470 | 38 |
| 8470CP | 38 |
| 8622 | 38 |

Box Sealing Tapes

| | |
|--------------|----|
| 302 | 20 |
| 305 | 20 |
| 311 | 20 |
| 313 | 20 |
| 315 | 20 |
| 351 | 20 |
| 353 | 20 |
| 355 | 20 |
| 355CP | 21 |
| 369 | 20 |
| 371 | 20 |
| 371CP | 21 |
| 372 | 20 |
| 372CP | 21 |
| 373 | 20 |
| 373CP | 21 |
| 375 | 20 |
| 375CP | 21 |
| 600 | 23 |
| 605 | 23 |
| 610 | 23 |
| 640 | 23 |
| 660 | 23 |
| 681 | 23 |
| 690 | 23 |
| 720 | 23 |
| 856 | 23 |
| 3071 | 20 |
| 3071CP | 21 |
| 3072 | 20 |
| 3072CP | 21 |
| 3073 | 20 |
| 3721 | 21 |
| 3723 | 21 |
| 3073CP | 21 |

Box Sealing Tapes (cont.)

| | |
|------------|----|
| 3199 | 21 |
| 3732 | 21 |
| 3734 | 21 |
| 3771 | 21 |
| 3772 | 21 |
| 3775 | 21 |
| 3779 | 21 |
| 5910 | 23 |
| 6141 | 21 |
| 6142 | 21 |
| 6143 | 21 |
| 6144 | 21 |
| 6145 | 21 |
| 6146 | 21 |
| 6147 | 21 |

Carry Handles

| | |
|--------------|----|
| 8305 | 32 |
| 8310 | 32 |
| 8315 | 32 |
| 8320 | 32 |
| 8330 | 32 |
| 8340 | 32 |
| 8346HP | 32 |
| 8347 | 32 |
| 8350 | 32 |

Cold Temperature Tapes

| | |
|------------|----|
| 3721 | 21 |
| 3723 | 21 |

Custom Printed Tapes

| | |
|--------------|----|
| 355CP | 21 |
| 371CP | 21 |
| 372CP | 21 |
| 373CP | 21 |
| 375CP | 21 |
| 3071CP | 21 |
| 3072CP | 21 |
| 3073CP | 21 |

Hang Tabs

| | |
|------------|----|
| 1072 | 35 |
| 1074 | 35 |
| 1075 | 35 |
| 1076 | 35 |

High Strength Filament Tapes

| | |
|---------------|--------|
| 860 | 25 |
| 862 | 25 |
| 880 | 25, 27 |
| 880MSR | 27 |
| 890HD | 25, 27 |
| 890MSR | 25, 27 |
| 890SR | 27 |
| 890RCT | 27 |
| 892 | 27 |
| 893 | 25, 27 |
| 894 | 27 |
| 896 | 27 |
| 897 | 25, 27 |
| 898 | 25, 27 |
| 899 | 27 |
| 898MSR | 27 |
| 8651 | 25 |
| 8898 | 25 |
| 8915 | 27 |
| 8916 | 27 |
| 8916V | 27 |
| 8919MSR | 25, 27 |
| 8932 | 25, 27 |
| 8934 | 25, 27 |
| 8959 | 27 |
| 8981 | 27 |
| 8983P | 27 |
| 8984 | 27 |
| 8988 | 27 |

Label Protection Tapes

| | |
|------------|----|
| 356 | 36 |
| 821 | 36 |
| 823 | 36 |
| 3565 | 36 |
| 3765 | 36 |

Product Name Index (cont.)

Light Duty Packaging Tapes

| | |
|------|----|
| 600 | 23 |
| 605 | 23 |
| 610 | 23 |
| 640 | 23 |
| 660 | 23 |
| 681 | 23 |
| 690 | 23 |
| 720 | 23 |
| 856 | 23 |
| 5910 | 23 |

Marking and Identification Tags

| | |
|-------|----|
| 818 | 35 |
| 818CP | 35 |

Multipack Tapes

| | |
|-----|----|
| 694 | 33 |
|-----|----|

Non-RSC Solutions

| | |
|--------|----|
| S867 | 12 |
| S867II | 12 |

Packing List Envelopes

| | |
|--------|----|
| F1 | 37 |
| F1 PL | 37 |
| FED1 | 37 |
| NP1 | 37 |
| NP2 | 37 |
| NP3 | 37 |
| NP4 | 37 |
| NP5 | 37 |
| NP6 | 37 |
| NP9 | 37 |
| NPZL | 37 |
| NPZXL | 37 |
| T1 | 37 |
| T1 INV | 37 |
| T1 PL | 37 |
| T2 | 37 |
| T3 | 37 |
| T4 | 37 |

Pouch Tapes

| | |
|-------|----|
| 824 | 36 |
| 825 | 36 |
| 827 | 36 |
| 829 | 36 |
| 830 | 36 |
| 832 | 36 |
| 8240 | 36 |
| 8240P | 36 |
| 828CP | 36 |
| 830CP | 36 |
| 832CP | 36 |

Recycled Corrugate Tapes

| | |
|------|----|
| 3071 | 20 |
| 3072 | 20 |
| 3073 | 20 |

Reinforced Strapping Tapes

| | |
|------|----|
| 862 | 28 |
| 863 | 28 |
| 864 | 28 |
| 865 | 28 |
| 8651 | 28 |
| 8654 | 28 |

Remote Sensing Tapes

| | |
|-------|----|
| 3000X | 39 |
| 7590 | 39 |
| 7610 | 39 |
| 7800 | 39 |

Security Tapes

| | |
|------|----|
| 3199 | 21 |
| 3732 | 21 |
| 3734 | 21 |
| 3771 | 21 |
| 3772 | 21 |
| 3775 | 21 |
| 3779 | 21 |

Tape Pads

| | |
|-------|----|
| 802 | 34 |
| 809G | 34 |
| 809GP | 34 |
| 809S | 34 |
| 819 | 34 |
| 822 | 34 |
| 3750P | 34 |

Stretchable Tapes

| | |
|------|----|
| 8884 | 30 |
| 8886 | 30 |

Tape Dispensers

| | |
|-------|----|
| C22 | 15 |
| C23 | 15 |
| C25 | 15 |
| H10 | 15 |
| H12 | 15 |
| H38 | 15 |
| H121 | 15 |
| H122 | 15 |
| H123 | 15 |
| H128 | 15 |
| H129 | 15 |
| H130 | 15 |
| H131 | 15 |
| H133 | 15 |
| H150 | 15 |
| H153 | 15 |
| H180 | 15 |
| H183 | 15 |
| H190 | 15 |
| H192 | 15 |
| H320 | 15 |
| H1755 | 15 |
| HB901 | 15 |
| HB902 | 15 |
| HB903 | 15 |
| HR22 | 15 |
| HR80 | 15 |
| HR83 | 15 |

Tape Dispensers (cont.)

| | |
|-------|----|
| HR933 | 15 |
| M82 | 15 |
| M96 | 15 |
| M707 | 15 |
| M727 | 15 |
| M797 | 15 |
| M900 | 15 |
| M920 | 15 |
| P52 | 15 |
| P52W | 15 |
| P56 | 15 |
| P56W | 15 |
| P400 | 15 |
| P410 | 15 |
| P448 | 15 |
| S63 | 15 |
| S634 | 15 |
| W100 | 15 |
| W200 | 15 |

Tear Strip Tapes

| | |
|------|----|
| 8621 | 38 |
| 8622 | 38 |
| 8624 | 38 |
| 8626 | 38 |
| 8640 | 38 |

Tensilized Polypropylene Tapes

| | |
|------|----|
| 860 | 29 |
| 8896 | 29 |
| 8898 | 29 |
| 8899 | 29 |

Water Activated Tapes

| | |
|------|----|
| 6141 | 21 |
| 6142 | 21 |
| 6143 | 21 |
| 6144 | 21 |
| 6145 | 21 |
| 6146 | 21 |
| 6147 | 21 |

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