

Right Tapes. Right System. Right Partner.



3M Packaging Solutions Guide
April, 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

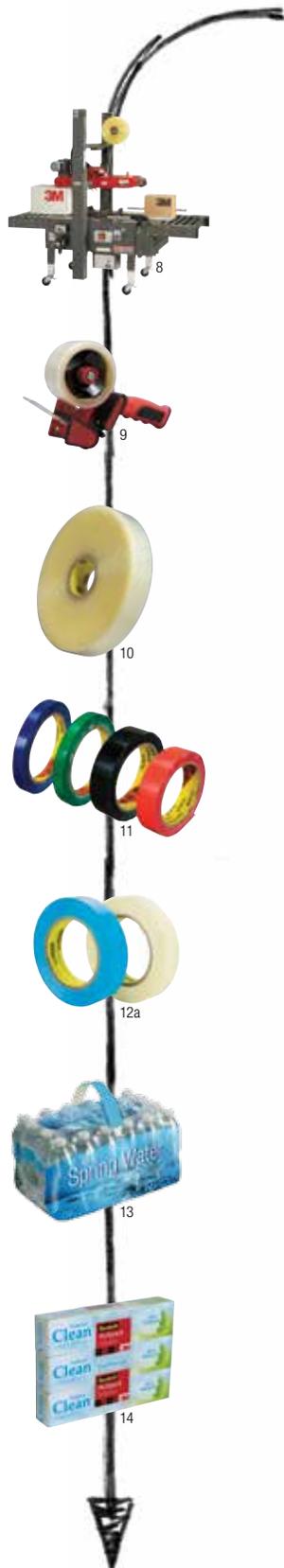
Scotch

3M-Matic
Case Sealing Systems

The most trusted names in packaging systems

3M Packaging Solutions

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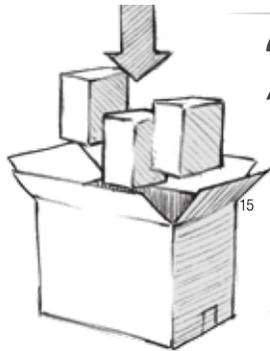
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ERECTING & PACKING

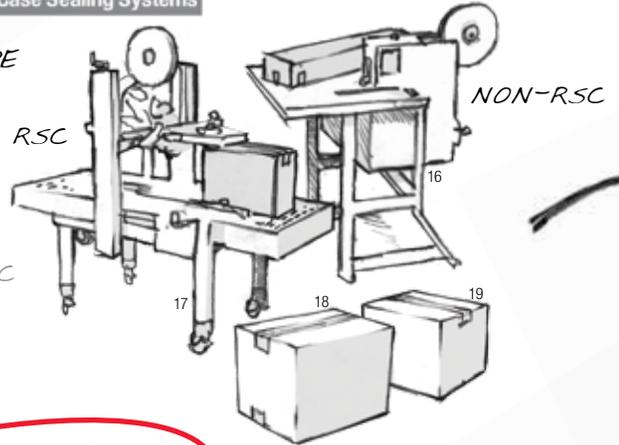
CASE ERECTORS
ERGO PACKS

THROUGHPUT & SPEED



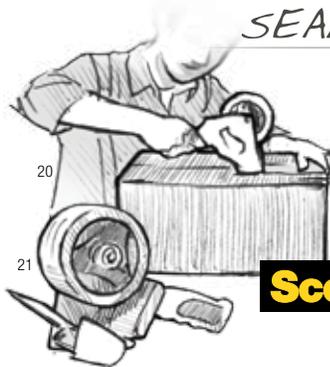
CONSISTENCY
SECURITY
PROTECTION

3M™ ACCUGLIDE™ TAPE
HEAD TECHNOLOGY



SEALING

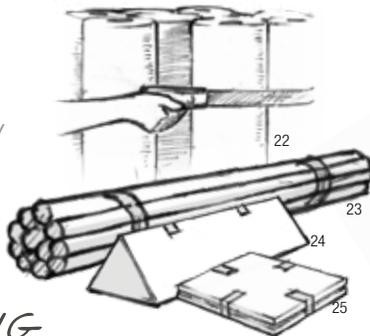
SEMI-AUTOMATIC
HAND APPLIED
BAG SEALING



RECYCLED
CORRUGATE?
NO PROBLEM!



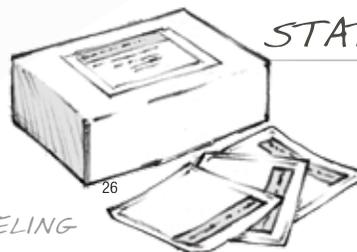
PROTECTION
CONTROL
SECURITY



BUNDLING

L-CLIP CLOSURE

PACKING STATIONS



LABELING
EASE OF USE

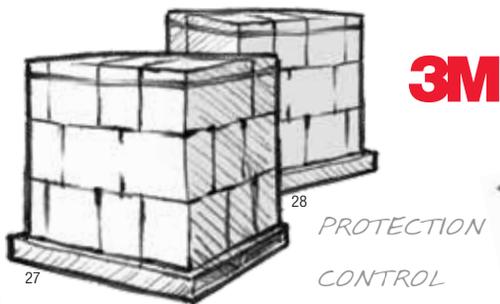
DOCUMENT
ATTACHMENT
LABEL PROTECTION
PATCHING

TECH SUPPORT
BEFORE &
AFTER THE SALE



The Total Package

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



27

PROTECTION
CONTROL

PALLET UNITIZING



SHIPPING &
WAREHOUSING

IDENTIFICATION
SECURITY



29

DELIVER IT TO
THE CUSTOMER

Scotch



30

MULTIPACK

PROMOTIONS
EASY OPEN

BRANDING

CUSTOM
SOLUTIONS

DISPLAY

AWARENESS



USE IT

CARRYING

33

31

32

34

35

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

3 What closure method do you use?

- RGT (reinforced gum tape)
- Pressure-sensitive box sealing tape
- Glue
- Staples

2 How many boxes do you seal per day?

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 29 kg (65 lbs)
Bottom belt drive



41

a80*

Up to 30 cs/min
Up to 29 kg (65 lbs)
Side belt drives

Engineered for High Volume



43

200a*

Up to 40 cs/min
Up to 38 kg (85 lbs)
Bottom belt drive



44

800ab

Narrow cases
Bottom only taping
Up to 40 cs/min
Up to 38 kg (85 lbs)
Side belt drives



45

800asb

Small cases
Up to 28 cs/min
Up to 38 kg (85 lbs)
Side belt drives



46

7000a Pro

Up to 40 cs/min
Up to 38 kg (85 lbs)
Top and bottom belt drives



47

8000a

Up to 40 cs/min
Up to 38 kg (85 lbs)
Side belt drives

Manually Adjustable, Semi-Automatic



42

a80f

Up to 30 cs/min
Up to 29 kg (65 lbs)
Side belt drives



36

800af

Up to 40 cs/min
Up to 38 kg (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



49

800r*

Up to 20 cs/min
Up to 38 kg (85 lbs)
Side belt drives



50

800rks†

Up to 10 cs/min
Up to 90 kg (200 lbs)
Top and bottom side belt drives



37

7000r Pro

Up to 24 cs/min
Up to 38 kg (85 lbs)
Top and bottom belt drives

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

Self Adjusting Fully-Automatic Flap Folding



51

800rf*

Up to 10 cs/min
Up to 38 kg (85 lbs)
Side belt drives

Non-RSC Box



52

S867

3M-Matic™ L-Clip Applicator S867 is a semi-automatic unit that applies 11.4 cm (4.5 in.) L-Clips of Scotch® Filament Tapes and Scotch® Box Sealing Tapes at up to 50 clips/min.

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 (cm)						Power Requirements		Operating Rate (cs/min)	Belt-Drive Speed (m/s (ft/min))	Taping Head	Comments
		Minimum			Maximum			Electrical	Air				
		L	W	H	L	W	H						
a20	Bottom	15.2	16.5	10.8 [8.9]	N/L	54.6	54.6	115VAC 60Hz 2.8A 360W	No Air	Up to 30	0,4 (78)	5.1 cm (2") 3M™ AccuGlide™ 2+	Entry Level
a20-s	Bottom	15.2	16.5	10.8 [8.9]	N/L	54.6	54.6	115VAC 60Hz 2.8A 360W	No Air	Up to 30	0,4 (78)	5.1 cm (2") 3M™ AccuGlide™ 2+	Stainless Steel
200a	Bottom	15.2	16.5	11.4 [9.5]	N/L	54.6	62.2 [72.4]	115VAC 60Hz 1.9A 220W	No Air	Up to 40	0,5 (100)	5.1 cm (2") 3M™ AccuGlide™ 3	Semi-Automatic Adjustable
200a3	Bottom	15.2	19.1	11.4 [9.5]	N/L	54.6	62.2 [72.4]	115VAC 60Hz 1.9A 220W	No Air	Up to 40	0,5 (100)	7.6 cm (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 (cm)						Power Requirements		Operating Rate (cs/min)	Belt-Drive Speed (m/s (ft/min))	Taping Head	Comments
		Minimum			Maximum			Electrical	Air				
		L	W	H	L	W	H						
700a-s	Top and Bottom	15.2	15.2	12.1	N/L	54.6	62.2	115VAC 60Hz 3.8A 440W	No Air	Up to 30	0,4 (78)	5.1 cm (2") 3M™ AccuGlide™ 2+ Stainless Steel	For Corrosive Environment
7000a Pro	Top and Bottom	15.2	16.5	10.8	N/L	66	71.1	115VAC 60Hz 3.8A 440W	No Air	Up to 40	0,5 (100)	5.1 cm (2") 3M™ AccuGlide™ 3	Extended size capabilities are possible, please contact 3M
7000a3 Pro	Top and Bottom	15.2	16.5	10.8	N/L	66	71.1	115VAC 60Hz 3.8A 440W	No Air	Up to 40	0,5 (100)	7.6 cm (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 36 mm to 48 mm, and also 72 mm 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 36 mm.



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 15.2 cm x 1.12 m (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 36 mm to 48 mm, and also 72 mm tape.

Side Belt Drive Systems

Machine	Drive System	Box Size Capacity (cm)						Power Requirements		Operating Rate (cs/min)	Belt-Drive Speed m/s (ft/min)	Taping Head	Comments
		Minimum			Maximum			Electrical	Air				
		L	W	H	L	W	H						
a80	Side	15.2	12.1	11.4	N/L	54.6	54.6	115VAC 60Hz 3.8A 440W	No Air	Up to 30	0,4 (78)	5.1 cm (2") 3M™ AccuGlide™ 2+	Entry Level
a80-3	Side	15.2	14.6	11.4	N/L	54.6	54.6	115VAC 60Hz 3.8A 440W	No Air	Up to 30	0,4 (78)	7.6 cm (3") 3M™ AccuGlide™ 2+	
a80b	Side	15.2	12.1	8.9	N/L	54.6	N/L	115VAC 60Hz 3.8A 440W	No Air	Up to 30	0,4 (78)	5.1 cm (2") 3M™ AccuGlide™ 2+	Entry Level Bottom Taping Only
a80b-3	Side	15.2	14.6	8.9	N/L	54.6	N/L	115VAC 60Hz 3.8A 440W	No Air	Up to 30	0,4 (78)	7.6 cm (3") 3M™ AccuGlide™ 2+	
8000a	Side	15.2	11.4	10.8	N/L	54.6	71.1	115VAC 60Hz 3.8A 440W	No Air	Up to 40	0,5 (100)	5.1 cm (2") 3M™ AccuGlide™ 3	Extended size capabilities are possible, please contact 3M
8000a3	Side	15.2	14	10.8	N/L	54.6	71.1	115VAC 60Hz 3.8A 440W	No Air	Up to 40	0,5 (100)	7.6 cm (3") 3M™ AccuGlide™ 3	
800asb	Side	15.2	9.9	7	N/L	54.6	56.5	115VAC 60Hz 3.8A 440W	No Air	Up to 28	0,3 (57)	3.81 cm (1.5") 3M™ AccuGlide™ II	Small Box
800ab	Side	15.2	14	8.9	N/L	54.6	N/L	115VAC 60Hz 3.8A 440W	No Air	Up to 40	0,5 (100)	5.1 cm (2") 3M™ AccuGlide™ 3	Bottom Taping Only
800ab3	Side	15.2	14	8.9	N/L	54.6	N/L	115VAC 60Hz 3.8A 440W	No Air	Up to 40	0,5 (100)	7.6 cm (3") 3M™ AccuGlide™ 3	Bottom Taping Only
800af	Side	15.2	12.1	11.4 [9.5]	76.2	54.6	62.2 [72.4]	115VAC 60Hz 3.8A 440W	2.5 SCFM @ 85 PSIG	Up to 40	0,5 (100)	5.1 cm (2") 3M™ AccuGlide™ 3	Flap-Folding
800af3	Side	15.2	14.6	11.4 [9.5]	76.2	54.6	62.2 [72.4]	115VAC 60Hz 3.8A 440W	2.5 SCFM @ 85 PSIG	Up to 40	0,5 (100)	7.6 cm (3") 3M™ AccuGlide™ 3	
a80-t	Side	15.2	12.1	11.4	N/L	54.6	54.6	115VAC 60Hz 3.8A 440W	No Air	Up to 30	0,4 (78)	5.1 cm (2") 3M™ AccuGlide™ 2+	Entry Level Pack Station
a80f	Side	15.2	11.4	11.4	61	54.6	54	115VAC 60Hz 3.8A 440W	3.75 SCFM @ 85 PSIG	Up to 30	0,4 (78)	5.1 cm (2") 3M™ AccuGlide™ 2+	Entry Level
a80f-3	Side	15.2	14	11.4	61	54.6	54	115VAC 60Hz 3.8A 440W	3.75 SCFM @ 85 PSIG	Up to 30	0,4 (78)	7.6 cm (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 39
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 (cm)						Power Requirements		Operating Rate (cs/min)	Belt-Drive Speed m/s (ft/min)	Taping Head	Comments
		Minimum			Maximum			Electrical	Air				
		L	W	H	L	W	H						
7000r Pro	Top and Bottom	15.2	16.5	11.11	N/L	67.3	66	115VAC 60Hz 3.8A 440W	3.75 SCFM @ 85 PSIG	Up to 24	0,5 (100)	5.1 cm (2") 3M™ AccuGlide™ 3	Extended size capabilities are possible, please contact 3M
7000r3 Pro	Top and Bottom	15.2	16.5	11.11	N/L	67.3	66	115VAC 60Hz 3.8A 440W	3.75 SCFM @ 85 PSIG	Up to 24	0,5 (100)	7.6 cm (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 (cm)						Power Requirements		Operating Rate (cs/min)	Belt-Drive Speed m/s (ft/min)	Taping Head	Comments
		Minimum			Maximum			Electrical	Air				
		L	W	H	L	W	H						
800r	Side	20.3	11.4	12.7	N/L	50.8	54 [64.1]	115VAC 60Hz 3.8A 440W	3.75 SCFM @ 85 PSIG	Up to 20	0,5 (100)	5.1 cm (2") 3M™ AccuGlide™ 3	Semi-Automatic Random
800r3	Side	20.3	14	12.7	N/L	50.8	54 [64.1]	115VAC 60Hz 3.8A 440W	3.75 SCFM @ 85 PSIG	Up to 20	0,5 (100)	7.6 cm (3") 3M™ AccuGlide™ 3	
800rks	Side	38.1	15.2	30.5	N/L	30.0	127	208/240VAC 3Ph 60Hz 6.6A 1500W	6.25 SCFM @ 85 PSIG	Up to 10	0,4 (78)	7.6 cm (3") 3M™ AccuGlide™ 3	Random King Size
800rf	Side	20.3	14	15.2	61	50.8	50.8	208/240VAC 3Ph 60Hz 5.5A 1300W	7.0 SCFM @ 75 PSIG	Up to 10	0,5 (100)	5.1 cm (2") 3M™ AccuGlide™ 3	Fully-Automatic
800rf3	Side	20.3	14	15.2	61	50.8	50.8	208/240VAC 3Ph 60Hz 5.5A 1300W	7.0 SCFM @ 75 PSIG	Up to 10	0,5 (100)	7.6 cm (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 55

Raising the speed limit to 30.5 m (100 ft.) per minute for easy, consistent and accurate case sealing.



3M™ AccuGlide™ 2+ 56

Speeds up to 24.4 m (80 ft.) per minute.



3M™ AccuGlide™ 2+ SSSL 57

Stainless steel resists corrosion. Speeds up to 24.4 m (80 ft.) per minute.



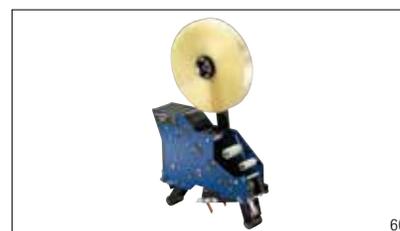
3M™ AccuGlide™ NPH 58

Designed for case sealers with narrow taping head cavity. Applies tape at up to 30.5 m (100 ft.) per minute.



3M™ AccuGlide™ LHB 59

A low height box taping head that exerts minimum force on case and utilizes shorter tape legs.



3M™ AccuGlide™ HST 60

Heads available to apply 48 mm and 72 mm wide tape at case speeds of up to 45.7 m (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 61



Gap Flap Taping 62



Wide Roll Taping 63

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

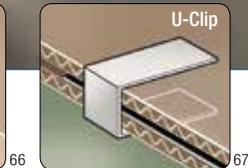
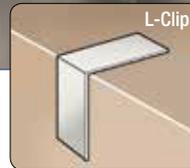
To save cost and time, apply pre-fed 11.4 cm (4.5") L-Clips of Scotch® Filament or Reinforced Strapping Tapes at up to 50 clips per minute to five panel fold, full overlap, telescoping, tuck fold and other non-standard packages. Dual head applies two clips simultaneously as close as 8 inches apart.



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	10.2 cm (4 in.)	3.8 cm (1-1/2 in.)
Tape Width Options	9 mm to 18 mm	6 mm to 12 mm
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

3M-Matic™ Case Sealers Replacement Parts and Accessories

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.



71

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



72

Application Monitor

With top and bottom sensors, the case sealer mounted programmable logic controller alerts the operator when tape is not applied to the box or not cut, or when tape supply is low on the roll.



73

Low Tape Indicator Light Kit

An option for 3M-Matic™ Case Sealers. Indicates when tape is getting low.



74

3-Flap Folder

For increased productivity, easily attached flap folder assists operator in folding the minor (front) and two major (side) flaps of RSCs before taping.



75

Infeed/Exit Conveyor

Ball bearing steel rollers in a steel frame bolts to the 3M-Matic™ Case Sealer to provide a smooth transition in existing conveyor lines. Provides pack area surface at infeed. Available also in stainless steel.



76

Box Hold Down Attachment

Holds RSCs on the optional infeed conveyor to free the operator's hands for case filling.



77

Locking/Swivel Casters

When packaging operations need to be reconfigured or moved, 3M-Matic™ Case Sealers roll to the job on these heavy duty casters. Toe-operated lever locks case sealer in place.

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.



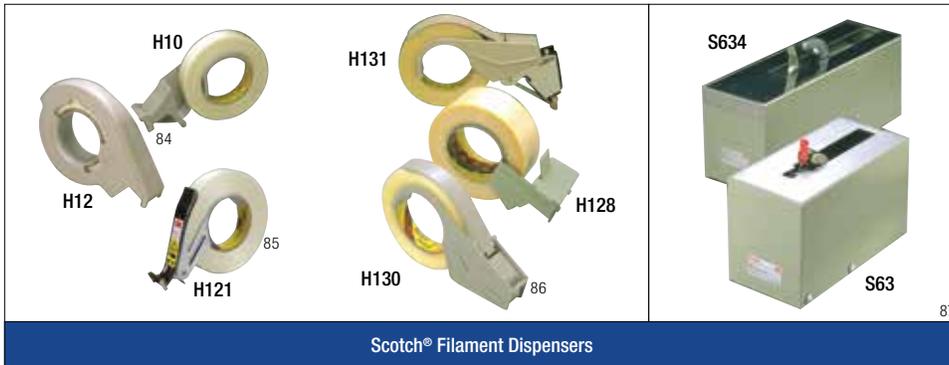
Scotch® Box Sealing Dispensers

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



Scotch® Bag Sealers

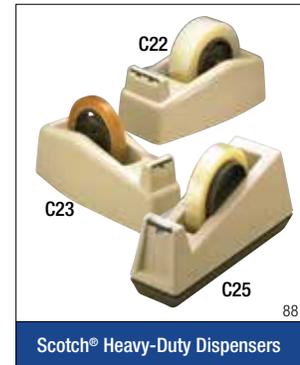
Applies tape in an adhesive-to-adhesive flag seal.



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.



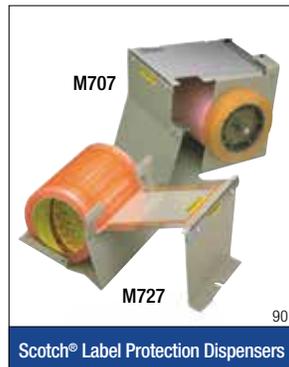
Scotch® Heavy-Duty Dispensers

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



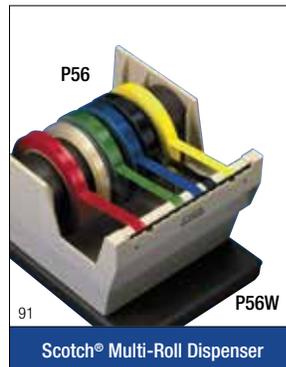
Scotch® Stretchable Tape Dispenser

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 15.2 cm (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	48 mm
H123	Lightweight, compact metal tape dispenser	72 mm
H128	Heavy-duty durable metal tape dispenser	48 mm
H129	Quick and easy one hand method to apply, cut, and buff the tape closures	48 mm
H150	Tape dispenser designed to reduce the noise of tape unwind during application	48 mm
H153	Tape dispenser designed to reduce the noise of tape unwind during application	72 mm
H180	Portable and easy to operate pistol grip dispenser	48 mm
H183	Portable and easy to operate pistol grip dispenser	72 mm
H190	Pistol grip dispenser features pull apart design	48 mm
H192	Ergonomical tape dispenser with hand brake	48 mm
H320	Ultra-light, economical, plastic tape dispenser	48 mm
H1755	Lightweight, pistol grip tape dispenser	48 mm
HB902	Economical, compact, and lightweight tape dispenser	48 mm
HB903	Economical pistol grip tape dispenser	48 mm
HR22	Lightweight, compact, dispenser with a retractable blade	48 mm
HR80	Portable, lightweight, easy to operate, dispenser with a retractable blade	48 mm
HR83	Portable, lightweight, easy to operate, dispenser with a retractable blade	72 mm
HR933	Economical tape dispenser with a retractable blade	72 mm
Hand-Held Filament Tape Dispensers		
H10	Durable, lightweight plastic tape dispenser	24 mm
H12	Portable, plastic dispenser features a hand brake to add tension to the tape roll	24 mm
H121	Durable, metal dispenser allows operator to add tension for a tighter tape application	24 mm
H128	Heavy-duty, metal dispenser commonly used to dispense tapes 8959 and 890	48 mm
H130	Portable, plastic dispenser features a hand brake to add tension to the tape roll	18 mm
H131	Quick and easy one hand method to apply, cut, and buff the tape closures	18 mm
H133	Quick and easy one hand method to apply, cut, and buff the tape closures	18 mm
HB901	Economical and portable tape dispenser	24 mm
Table Top Dispensers		
C22	Weighted dispenser for easy pull and cut tape dispensing	5.08 cm (2")
C23	Weighted dispenser for easy pull and cut tape dispensing	2.54 cm (1")
C25	Weighted dispenser for easy pull and cut tape dispensing	2.54 cm (1")
M82	Definite length dispenser handles multiple rolls of tape commonly dispensed with filament and light duty tapes	96 mm
M96	Definite length dispenser — dispenses tape in lengths of 1.9 cm to 12.7 cm (3/4" to 5") per stroke	2.54 cm (1")
M900	Durable, metal construction dispenses a uniform length of packaging tape from 3.81 cm to 40.6 cm (1-1/2" to 16")	7.62 cm (3")
M920	Definite length dispenser — dispenses tape in lengths of 1.3 cm to 10.2 cm (1/2" to 4") per stroke	2.54 cm (1")
P52	Mainline tabletop manual pull and cut dispenser with multiple roll capacity	5.08 cm (2")
P52W	Mainline tabletop manual pull and cut dispenser with multiple roll capacity (comes with weighted base)	5.08 cm (2")
P56	Mainline tabletop manual pull and cut dispenser with multiple roll capacity	15.24 cm (6")
P56W	Mainline tabletop manual pull and cut dispenser with multiple roll capacity (comes with weighted base)	15.24 cm (6")
P448	Metal dispenser that handles multiple rolls for easy dispensing	20.3 cm (8")
S63	Semi-automatically applies L-Clip of tape to a box using filament or light duty tapes	12 mm
S634	Semi-automatically applies L-Clip of tape to a box using filament or light duty tapes	18 mm
W100	Manually dispenses pre-set length of water-activated tapes	7.62 cm (3")
W200	Electronic dispenser — dispenses a pre-set length of water-activated tape at the push of a button	7.62 cm (3")
Specialty Tape Dispensers		
H38	Lightweight, plastic dispenser — dispenses stretchable tapes 8884 and 8886	36 mm
M707	Heavy duty metal dispenser with auxiliary holder and cutter for 1.9 cm (3/4") rolls of tape — commonly used with 821 and 823 tapes	10.2 cm (4")
M727	Metal construction provides easy dispensing of pouch tapes 824, 827 and 829	12.7 cm (5")
M797	Metal construction provides easy dispensing of pouch tape 827	15.24 cm (6")
P400	Bag sealer — applies tape in an adhesive-to-adhesive — flag seal (includes bag trimmer)	1.9 cm (3/4")
P410	Bag sealer — applies tape in an adhesive-to-adhesive flag seal	1.3 cm (1/2")

Box Sealing Tapes



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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 4.4°C (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. 4.54 kg (10 pounds)	10						
b. 9.07 kg (20 pounds)	20						
c. 13.61 kg (30 pounds)	25						
d. 18.14 kg (40 pounds)	30						
e. 22.68 kg (50 pounds)	35						
f. 31.75 kg (70 pounds)	45						
g. 36.29 kg (80 pounds)	50						
h. 45.36 kg (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				72 mm
			180				
			165			72 mm	
			150				48 mm
			135				
			120		72 mm	48 mm	
			105				
			90	72 mm	48 mm	42 mm	
			75				
			60	48 mm	42 mm		36 mm
			45	42 mm	36 mm	36 mm	
			35	36 mm			
			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 1.9 cm (3/4") or over packed/under packed cartons should be tested with 72 mm (3") 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 4.4°C (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 colours 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.

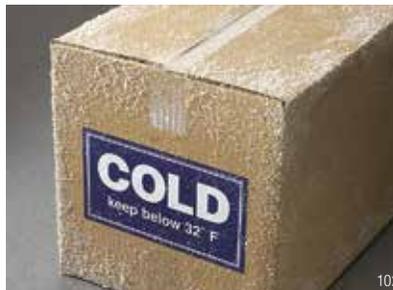
Product	Tape Structure (Backing/Adhesive)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lbs./in.)	Elongation at Break (%)	Backing Thickness mm (mils)	Total Thickness mm (mils)	Available Colours/Comments
ASTM Test Method		D-3330	D-3759	D-3759	D-3652	D-3652	
Scotch® Box Sealing Tapes							
311	Polypropylene/ Acrylic	24 (22)	438 (25)	125	0.028 (1.1)	0.052 (2.05)	Clear, Tan
313		35 (32)	613 (35)	125	0.041 (1.6)	0.065 (2.55)	
315		41.5 (38)	402 (23)	200	0.058 (2.3)	0.089 (3.5)	
351	Polyester/ Synthetic Rubber	85 (78)	1174 (67)	130	0.051 (2.0)	0.089 (3.43)	Clear, Tan or Custom Printed
353		49 (45)	437 (25)	110	0.025 (1.0)	0.048 (1.9)	Clear, Tan
355		85 (78)	1174 (67)	130	0.051 (2.0)	0.089 (3.43)	Clear, Tan or Custom Printed
371	Polypropylene/ Synthetic Rubber	44 (40)	385 (22)	160	0.030 (1.2)	0.048 (1.9)	Clear, Tan, Blue, Green, Orange, Red, White, Yellow or Custom Printed
372		49 (45)	455 (26)	160	0.035 (1.4)	0.056 (2.2)	Clear, Tan or Custom Printed
373		55 (50)	525 (30)	160	0.041 (1.6)	0.064 (2.5)	Clear, Tan, Blue, Green, Orange, Red, White, Yellow or Custom Printed
375		60 (55)	613 (35)	160	0.051 (2.0)	0.079 (3.1)	Clear, Tan or Custom Printed
Scotch® Recycled Corrugate Tapes							
3071	Polypropylene/ Synthetic Rubber	49 (45)	385 (22)	160	0.030 (1.2)	0.053 (2.1)	For use on recycled corrugate cartons, Custom Printed
3072		71 (65)	385 (22)	160	0.030 (1.2)	0.058 (2.3)	For use on recycled corrugate cartons, Custom Printed
3073		50 (46)	525 (30)	160	0.041 (1.6)	0.066 (2.6)	For use on recycled corrugate cartons, Custom Printed, 10% bio-based content
Tartan™ Box Sealing Tapes							
302	Polypropylene/ Acrylic	20 (18)	402 (23)	116	0.025 (1.0)	0.040 (1.6)	Clear, Tan
305		20 (18)	368 (21)	116	0.025 (1.0)	0.046 (1.8)	
369	Polypropylene/ Synthetic Rubber	32 (30)	333 (19)	160	0.025 (1.0)	0.041 (1.6)	

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 4.4°C (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 N/100 mm (oz./in.)	Tensile Strength N/100 mm (lbs./in.)	Elongation at Break (%)	Backing Thickness mm (mils)	Total Thickness mm (mils)	Available Colours/Comments
ASTM Test Method		D-3330	D-3759	D-3759	D-3652	D-3652	
Cold Temperature Tapes							
3721	Polypropylene/	57 (52)	386 (22)	160	0.030 (1.2)	0.053 (2.1)	Clear
3723	Modified Synthetic Rubber	49 (45)	525 (30)	160	0.041 (1.6)	0.076 (3.0)	Clear
Custom Printed Tapes							
355CP	Polyester/Synthetic Rubber	85 (789)	1174 (67)	130	0.051 (2.0)	0.089 (3.42)	Clear, Tan
371CP	Polypropylene/ Synthetic Rubber	44 (40)	385 (22)	160	0.030 (1.2)	0.048 (1.9)	Clear, Tan, Blue, Green, Orange, Red, White, Yellow
372CP		49 (45)	455 (26)	160	0.035 (1.4)	0.056 (2.2)	Clear, Tan
373CP		55 (50)	525 (30)	160	0.041 (1.6)	0.064 (2.5)	Clear, Tan, Blue, Green, Orange, Red, White, Yellow
375CP		60 (55)	613 (35)	160	0.051 (2.0)	0.079 (3.1)	Clear, Tan
3071CP		44 (45)	385 (22)	160	0.030 (1.2)	0.053 (2.1)	For use on recycled corrugate cartons
3073CP		50 (46)	525 (30)	160	0.041 (1.6)	0.066 (2.6)	10% bio-based and for use on recycled corrugate cartons
Security Tapes							
3199	Polypropylene/Acrylic	24 (22)	438 (25)	125	0.028 (1.1)	0.052 (2.05)	Clear with Red Type: CHECK SEAL BEFORE ACCEPTING
3732	Polypropylene/ Synthetic Rubber	55 (50)	525 (30)	160	0.041 (1.6)	0.064 (2.5)	Tan with Red Type: IF SEAL IS BROKEN CHECK CONTENTS BEFORE ACCEPTING
3734		55 (50)	525 (30)	160	0.041 (1.6)	0.064 (2.5)	Tan with Red Type: FRAGILE HANDLE WITH CARE
3771		44 (40)	385 (22)	160	0.030 (1.2)	0.048 (1.9)	White with Red Type: IF SEAL IS BROKEN CHECK CONTENTS BEFORE ACCEPTING
3772		44 (40)	385 (22)	160	0.030 (1.2)	0.048 (1.9)	White with Red Type: FRAGILE HANDLE WITH CARE
3775		44 (40)	385 (22)	160	0.030 (1.2)	0.048 (1.9)	White with Red Type: MIXED MERCHANDISE ENCLOSED
3779		44 (40)	385 (22)	160	0.030 (1.2)	0.048 (1.9)	Clear with Red Type: CHECK SEAL BEFORE ACCEPTING

Product	Tape Structure (Backing/Adhesive)	Basis Weight	Caliper (mils)	Tensile Strength (lbs. / in.)	Tear Strength (lbs. / in.)	Available Colours/Comments
ASTM Test Method		D-646	D-645	D-5803	D-1922	
3M™ Water Activated Tapes						
6141	Paper backing /gummed modified cornstarch based adhesive	35	3.5	30	72	Kraft (Tan) or Custom Printed
6142		60	5.5	44	125	
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	
6146		30/23	6.5	N/A	60–65	
6147		23/23 (Kraft) 30/23 (White)	8.5	N/A	60–65	

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.

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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 colour coding
- **Scotch® Heat Shrinkable Film Tape 6887:** UPVC backing and rubber adhesive for tamper-indicating secondary closures on the seams of tins and jars



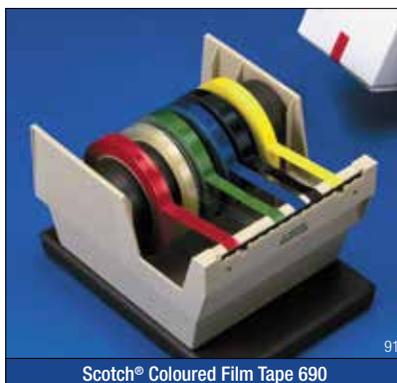
Scotch® Transparent Film Tape 640

105



Scotch® Manual Dispenser S63

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Scotch® Coloured Film Tape 690

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Scotch® Coloured Film Tape 690

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Light Duty Packaging Tapes

Product	Colour	Backing Material	Backing Thickness mm (mils)	Total Thickness mm (mils)	Tensile Strength N/100 mm (lb/in)	Adhesive Type	Adhesion to Steel N/100 mm (oz/in)	Elongation (%)	Typical Use	Comments
600	Clear	UPVC	0.038 (1.5)	0.058 (2.3)	490 (28)	Acrylic	44 (40)	45	L-Clip closure, attaching, tabbing and holding	Excellent handling, high clarity and long aging
605	Clear	Polypropylene	0.041 (1.6)	0.064 (2.5)	385 (22)	Acrylic	30 (27)	57	Cold temperature packaging	Cold temperature applications; Complies to FDA Regulations for indirect food contact
610	Clear	Cellophane	0.036 (1.4)	0.058 (2.3)	402 (23)	Natural Rubber	38 (35)	15	Splicing	High heat applications up to 149°C (300°F)
640	Clear	UPVC	0.030 (1.2)	0.048 (1.9)	560 (32)	Acrylic	30 (28)	65	Tabbing and holding of apparel	Clean removal from wide variety of fabrics and substrates
660	Red	Cellophane	0.036 (1.4)	0.064 (2.5)	350 (20)	Natural Rubber	55 (50)	10	Splicing and easy detection	High heat applications up to 149°C 300°F; High adhesion
681	Clear	UPVC	0.038 (1.5)	0.061 (2.4)	438 (25)	Natural Rubber	33 (30)	35	Sealing	Resists moisture and chemicals; Heat shrinkable; Complies to FDA Regulations for indirect food contact
690	Black, Blue, Green, Red, Yellow, White	UPVC	0.038 (1.5)	0.058 (2.3)	613 (35)	Natural Rubber	33 (30)	45	Colour coding	Resists moisture and chemicals; Heat shrinkable
720	Semi Transparent	Film/Fibre	0.114 (4.5)	0.160 (6.3)	350 (20)	Synthetic Rubber	99 (90)	7	Hand tearable, high tack	Hand tearable; High tack
856	Transparent	Polyester	0.025 (1.0)	0.051 (2.0)	438 (25)	Acrylic	22 (20)	90	Tough backing for good tear resistance	Tough backing for good tear resistance
5910	Clear	Polypropylene	0.030 (1.2)	0.051 (2.0)	315 (18)	Acrylic	17 (16)	90	Utility grade for light duty packaging applications	Conforms easily
Fingerprint Lifting Tape										
8004	Clear	Polypropylene	0.036 (1.4)	0.051 (2.0)	315 (18)	Acrylic	17 (16)	90	Ultra clear tape; Handles easily	Lift and preserve physical evidence such as fingerprints

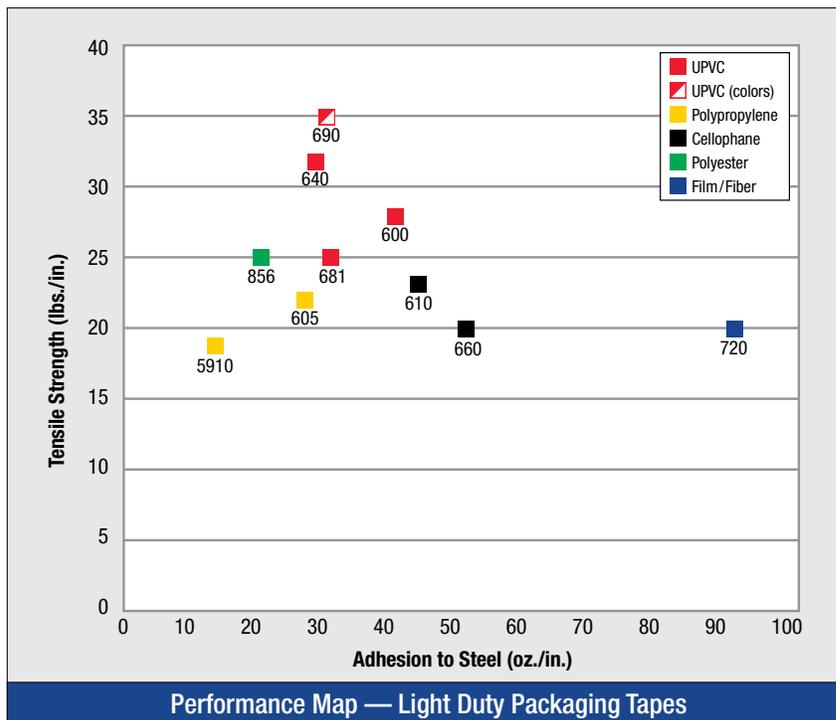
Technologies Matched to the Applications

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

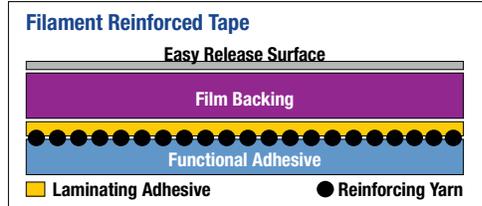
For Packaging and Non-Packaging Applications

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.



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	Tensilized 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	Tensilized 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

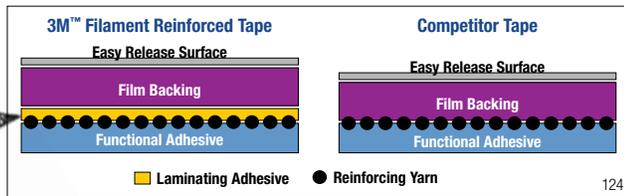
Product	Description	Tensile Strength*
893	Glass yarn reinforced	300 lbs./in.
898	Glass yarn reinforced, first choice for L- or U-Clip closure of non-RSC boxes	380 lbs./in.
8919MSR	Glass yarn reinforced, clean removal	380 lbs./in.
890MSR	Glass yarn reinforced, modified synthetic rubber adhesive for oily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

*ASTM Test Method D-3759

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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

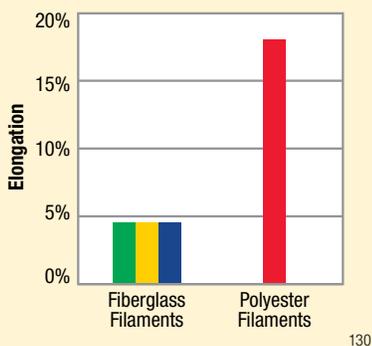
- **SR (Synthetic Rubber):** Versatile, good adhesion to many surfaces
- **MSR (Modified Synthetic Rubber):** Designed for adhesion to oily surfaces
- **RCT:** Designed for adhesion to recycled corrugate and other hard-to-stick-to-surfaces

Choice of Backings

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

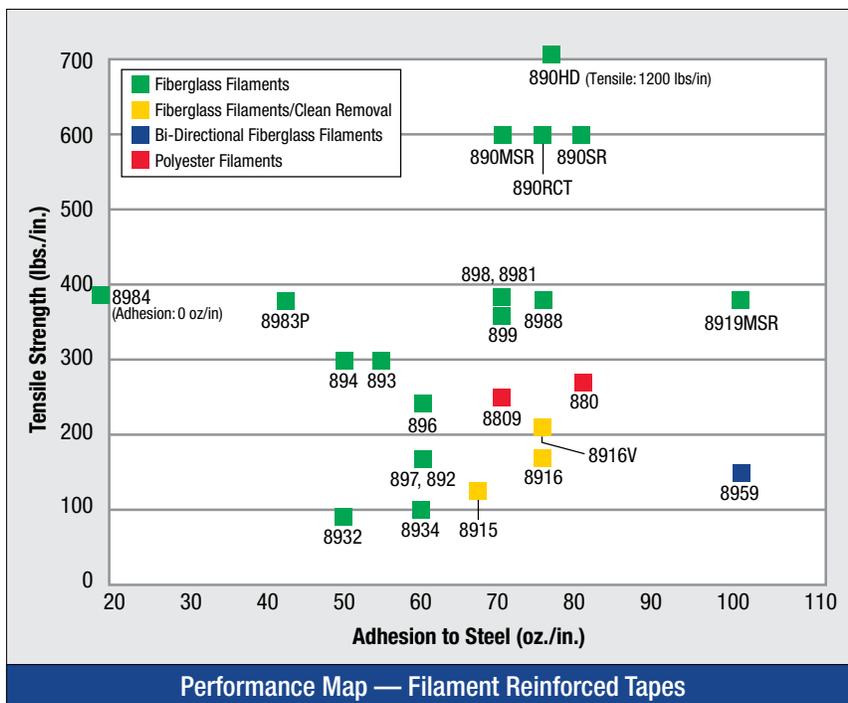
Choice of Filament Types

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 N/100 mm (lb/in)	Backing Material	Reinforcement	Total Thickness mm (mils)	Adhesive Type	Adhesion Strength N/100 mm (oz/in)	Elongation (%)	Backing Colour	Typical Use and Comments
ASTM Test Method	D-3759			D-3652		D-3330			
890HD	21012 (1200)	Polyester	Fibreglass	0.287 (11.3)	Synthetic Rubber	88 (80)	4	Clear	Extreme bundling and reinforcement; Highest tensile strength
890SR	10500 (600)	Polyester	Fibreglass	0.203 (8.0)	Synthetic Rubber	77 (70)	3	Clear	Basiloid, Heavy appliance lifting; Good adhesion to corrugate
890RCT	10500 (600)	Polyester	Fibreglass	0.203 (8.0)	Synthetic Rubber	82 (75)	3	Clear	Basiloid, Heavy appliance lifting; Good adhesion to recycled corrugate
890MSR	10500 (600)	Polyester	Fibreglass	0.203 (8.0)	Modified Synthetic Rubber	88 (80)	3	Clear	Metal coil closure; Good adhesion to oily surfaces
898	6655 (380)	Polypropylene	Fibreglass	0.168 (6.6)	Synthetic Rubber	77 (70)	5	Clear	L-Clip box closure, General bundling and reinforcing; Very high strength, Versatile, Good adhesion to many substrates
8988	6655 (380)	Polypropylene	Fibreglass	0.175 (6.9)	Synthetic Rubber	82 (75)	3	Clear	L-Clip box closure; Good adhesion to recycled corrugate
898MSR	6655 (380)	Polyester	Fibreglass	0.152 (6.0)	Modified Synthetic Rubber	99 (90)	3	Clear	Metal coil closure; Good adhesion to oily surfaces
8981	6655 (380)	Polypropylene	Fibreglass	0.168 (6.6)	Synthetic Rubber	77 (70)	3	Clear	L-Clip box closure; Good adhesion to many substrates
8919MSR	6655 (380)	Polyester	Fibreglass	0.180 (7.0)	Modified Synthetic Rubber	109 (100)	3	Clear	Metal coil closure; Good adhesion to oily surfaces, Thicker backing for improved handling
8983P	6655 (380)	Polyester	Fibreglass	0.152 (6.0)	Synthetic Rubber	47.1 (43)	3	Clear	General bundling and reinforcing; Applications requiring lower adhesion
8984	6655 (380)	Polypropylene	Fibreglass	0.120 (4.5)	None	0 (0)	5	Clear	Bundling materials where warnings and graphics cannot be removed; Applications requiring no adhesion
899	6305 (360)	Polypropylene	Fibreglass	0.168 (6.6)	Synthetic Rubber	77 (70)	5	Red	General bundling and reinforcing; Red colour for increased visible and detection
893	5254 (300)	Polypropylene	Fibreglass	0.152 (6.0)	Synthetic Rubber	60 (55)	4.5	Clear	Box closing, palletizing, strapping, bundling and reinforcing; High strength
894	5254 (300)	Polypropylene	Fibreglass	0.152 (6.0)	Synthetic Rubber	55 (50)	4.5	Black	Pipe bundling and other outdoor applications; High UV resistance
880	4728 (270)	Polypropylene	Polyester	0.196 (7.7)	Synthetic Rubber	88 (80)	19	Clear/ Red	Pipe and conduit, bundling and colour coding; Excellent shock resistance
880MSR	4728 (270)	Polyester	Polyester	0.196 (7.7)	Modified Synthetic Rubber	100 (95)	19	Clear	Metal coil closure; Good adhesion to oily surfaces, High cut resistance
8809	4728 (270)	Polyester	Polyester	0.196 (7.7)	Synthetic Rubber	77 (70)	19	Clear/ Red	Good adhesion to metal surfaces found in "armoring" applications
896	4203 (240)	Polypropylene	Fibreglass	0.137 (5.4)	Synthetic Rubber	66 (60)	3	White	Heavy box closure, general bundling and reinforcing; White boxes, Colour coding
8916V	3678 (210)	Polypropylene	Fibreglass	0.172 (6.8)	Synthetic Rubber	82 (75)	3	Blue	Appliance, Secure and stabilize parts; Clean removal, Thicker backing
897	2977 (170)	Polypropylene	Fibreglass	0.152 (6.0)	Synthetic Rubber	65 (60)	3	Clear	Box closing, palletizing, strapping, bundling and reinforcing; Medium strength
892	2977 (170)	Polypropylene	Fibreglass	0.140 (5.5)	Synthetic Rubber	65.4 (60)	3	Clear	Carpet bundling; Medium strength
8916	2977 (170)	Polypropylene	Fibreglass	0.150 (6.0)	Synthetic Rubber	82 (75)	3	Clear	Appliance, Secure and stabilize parts; Clean removal, High adhesion
8915	2977 (170)	Polypropylene	Fibreglass	0.150 (6.0)	Synthetic Rubber	71 (65)	3	Clear	Appliance, Secure and stabilize parts; Clean removal
8959	2627 (150)	Polypropylene	Bi-Directional Fibreglass	0.145 (5.7)	Synthetic Rubber	109 (100)	6	Clear	Heavy box closure, Splicing, Metal parts bundling; Bi-directional filament for excellent cut and puncture resistance; High adhesion
8934	1751 (100)	Polypropylene	Fibreglass	0.102 (4.0)	Synthetic Rubber	65 (60)	3	Clear	Box closing, palletizing, strapping, bundling and reinforcing; Utility
8932	1664 (95)	Polypropylene	Fibreglass	0.109 (4.3)	Synthetic Rubber	55 (50)	3	Clear	Box closing, palletizing, strapping, bundling and reinforcing; Utility

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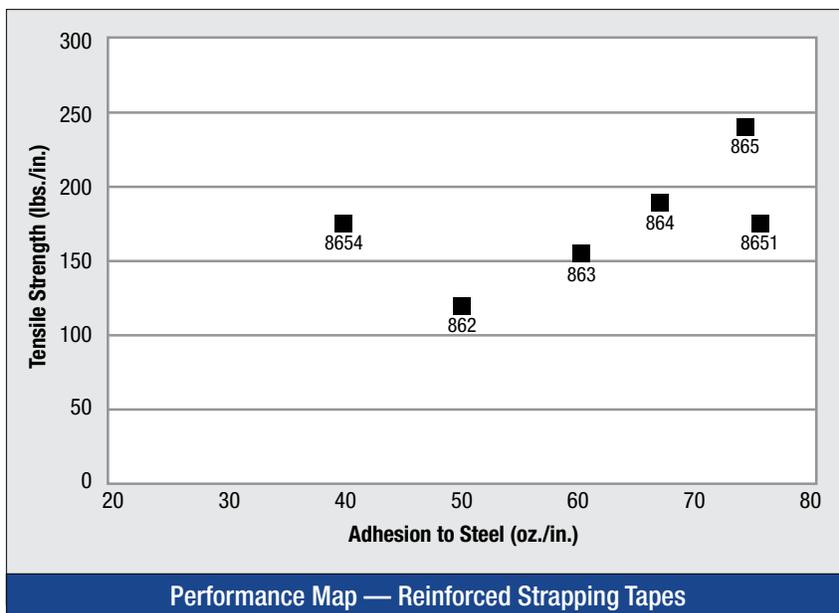
Scotch® Reinforced Strapping Tapes

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
Tensitized Polypropylene Tape	No	No	No	Yes	No

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

Tensitized 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.



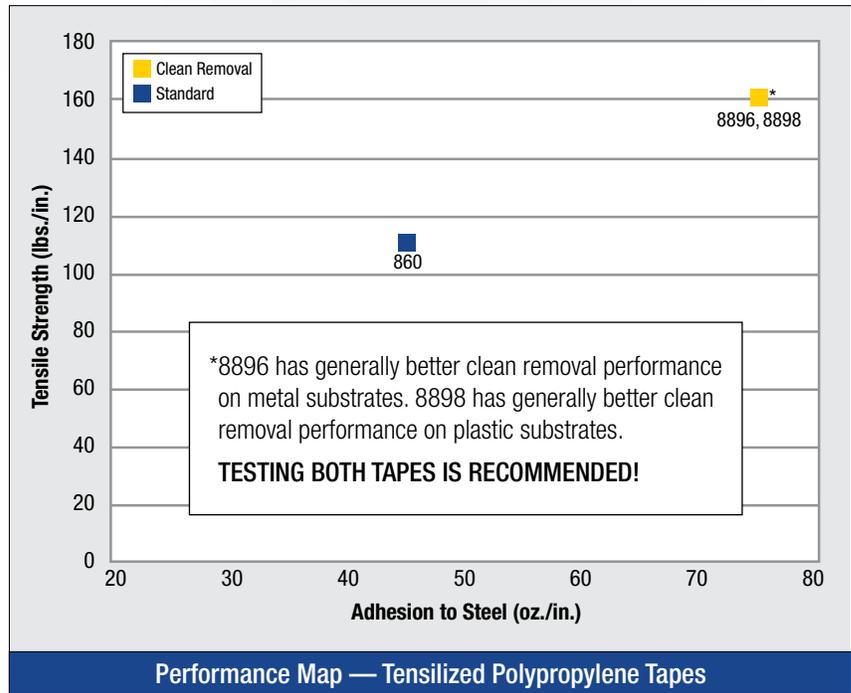
Hold packaging materials, spacers, corner boards, power cords and other hard-to-manage parts firmly in place.



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



12a



High Strength Tapes

Product	Tensile Strength N/100 mm (lb/in)	Backing Material	Reinforcement	Total Thickness mm (mils)	Adhesive Type	Adhesion Strength N/100 mm (oz/in)	Elongation (%)	Colour	Typical Use and Comments
ASTM Test Method	D-3759			D-3652		D-3330			
8898	2802 (160)	Polypropylene	None	0.12 (4.6)	Synthetic Rubber	82 (75)	32	Blue/Ivory	Appliance, Secure and stabilize parts; Clean removal, High adhesion
8896	2802 (160)	Polypropylene	None	0.12 (4.6)	Synthetic Rubber	77 (70)	32	Blue/Ivory	Appliance, Secure and stabilize parts; Clean removal
860	1926 (110)	Polypropylene	None	0.071 (2.8)	Synthetic Rubber	49 (45)	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-metre roll yields 357 metres of tape
- Creates ventilated load for shipment of time- and temperature-sensitive goods
- More stability — less waste



144



145

High yield! One 55-metre 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 N/100 mm (lb/in)	Backing Material	Total Thickness mm (mils)	Adhesive Type	Adhesion Strength N/100 mm (oz/in)	Elongation (%)	Colour	Comments
ASTM Test Method	D-3759		D-3652		D-3330			
8886	490 (28)	Polyethylene	0.168 (6.6)	Synthetic Rubber	71 (65)	720	Clear	Load containment
8884	350 (20)	Polyethylene	0.127 (5.0)	Synthetic Rubber	77 (70)	710	Clear	Palletizing for intra-plant movement; Load containment; For hand application using Scotch® Stretchable Tape Dispenser H38

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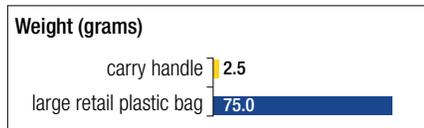
Custom Packaging Solutions



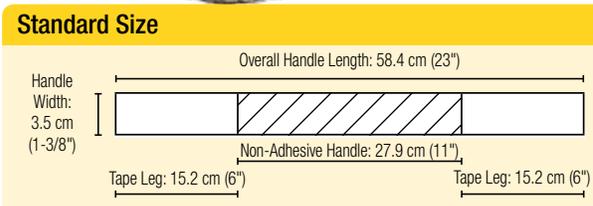
3M™ Carry Handles — Applied at Retail Checkout

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 kg (lbs)	Tape Material	Total Thickness mm (mils)	Tensile Strength N/100 mm (lb/in)	Adhesive Type	Adhesion N/100 mm (oz/in)	Pads per Case	Handles per Case	Handle (width x length) cm (in)	Tape Leg Length
3M™ Carry Handles — Padded for Individual Application							25 Handles per Pad			
8305	2.3 kg (5)	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)	220	5500	1.27 cm x 25.4 cm (1/2" x 10")	2.5 cm (1")
8310	4.5 kg (10)	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)	110	2750	2.5 cm x 43.2 cm (1" x 17")	7.6 cm (3")
8315	6.8 kg (15)	Polypropylene	0.081 (3.2)	613 (35)	Synthetic Rubber	60 (55)	80	2000	3.5 cm x 58.4 cm (1-3/8" x 23")	15.2 cm (6")
8320	9 kg (20)	Polyester	0.089 (3.5)	1174 (67)	Synthetic Rubber	85 (78)	110	2750	2.5 cm x 43.2 cm (1" x 17")	7.6 cm (3")
8330	13.6 kg (30)	Polyester	0.089 (3.5)	1174 (67)	Synthetic Rubber	85 (78)	80	2000	3.5 cm x 58.4 cm (1-3/8" x 23")	15.2 cm (6")
8340	18 kg (40)	Reinforced Strapping Tape	0.142 (5.6)	3325 (190)	Synthetic Rubber	73 (67)	80	2000	3.5 cm x 58.4 cm (1-3/8" x 23")	15.2 cm (6")
8350	22.7 kg (50)	Filament Tape	0.196 (7.7)	4728 (270)	Synthetic Rubber	88 (80)	80	2000	3.5 cm x 58.4 cm (1-3/8" x 23")	15.2 cm (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 kg (lbs)	Tape Material	Adhesive Type	Adhesion N/100 mm (oz/in)	Tensile Strength N/100 mm (lb/in)	Total Thickness mm (mils)	Roll Type	Roll (W x L)	Core Dia.
3M™ Carry Handles — Long-Length Rolls for In-Line Automated Application									
8347	9 (20)	Polypropylene	Synthetic Rubber	55 (50)	1800 (103)	0.065 (2.56)	Level-wound	25 mm x 3000 m (1" x 5470 yd)	15.2 cm (6")
8346HP	9 (20)	Polyester	Synthetic Rubber	57 (52)	1174 (67)	0.086 (3.4)	Level-wound	25 mm x 3000 m (1" x 5470 yd)	15.2 cm (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

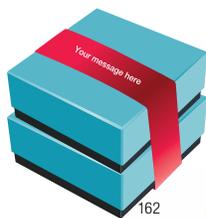
- Effective, low-cost way to bundle consumer products into multipacks and value packs
- Significant reduction in consumer waste
- Clear, strong tape holds firmly and removes cleanly without damaging the primary package graphics
- Custom-print tape option delivers your branding and promotional messaging,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



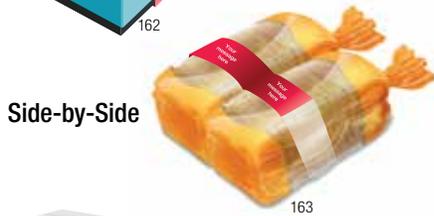
Marketing messages can be custom printed on this transparent, repositionable tape.

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



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

Shrink Wrapped



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

vs.

Reduction of
6,085 kg
(13,415 lbs.)
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; 649CP is a custom printed version
649CP									
699	Clear	Polypropylene	1.6 (0.041)	2.6 (0.066)	30 (525)	Acrylic	46 (50)	160	High adhesion, permanent tape designed for bundling multi-unit primary packaging; Apply manually or use automated with equipment; 699CP is a custom printed version
699CP									

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

Bag Sealing Tapes

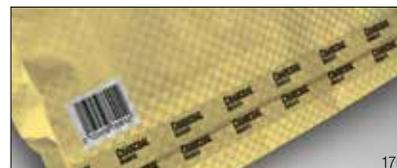
Stronger, Faster, Clearer Closure for Eye-Popping Woven Polypropylene Bags

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	Colour	Backing Material	Backing Thickness mm (mils)	Total Thickness mm (mils)	Tensile Strength N/100 mm (lb/in)	Adhesive Type	Adhesion to Steel N/100 mm (oz/in)	Elongation (%)	Comments
8469	Clear	Polyester	0.051 (2.2)	0.076 (3.0)	1104 (63)	Synthetic Rubber	81 (75)	130	Excellent tear, impact and abrasion resistance; 8469CP is a custom printed version
8469CP									
8470	Clear	Polypropylene	0.051 (2.0)	0.079 (3.1)	615 (36)	Synthetic Rubber	60 (55)	160	Good adhesion to variety of surfaces including polypropylene, paper, polyethylene; 8470CP is a custom printed version
8470CP									
8622	Red	Reinforced Polypropylene	0.21 (8.4)		3320 (190)	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) cm (in)	Colour	Tape Material	Total Thickness mm (mils)	Tensile Strength N/100 mm (lb/in)	Adhesive Type	Adhesion Strength N/100 mm (oz/in)	Elongation (%)	Tab
822	10.2 x 15.2 (4 x 6)	Transparent	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)	160	Removable
3750P	5.1 x 15.2 (2 x 6)	Transparent	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)	160	Removable
819	10.2 x 15.2 (4 x 6)	Clear	Bi-Directional Filament	0.145 (5.7)	2627 (150)	Synthetic Rubber	109 (100)	6	Removable
802	5.1 x 10.2 (2 x 4) 5.1 x 15.2 (2 x 6) 10.2 x 15.2 (4 x 6)	Matte	Acetate	0.051 (2.0)	265 (15)	Repositionable	1.6 (1.5)	15	Removable
809G	Custom Size	Transparent, Red, Yellow	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)	160	Removable or Permanent
809GP	Custom Size w/Custom Print	Transparent, Red, Yellow	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)	160	Removable or Permanent
809S	Custom Size, w/Custom Backsheet	Transparent	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)	160	Removable or Permanent

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

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, colour-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 cm (in)	Custom Size Availability	Colours Available	Printed Message	Applications	Material Type	Total Thickness mm (mils)	Tensile Strength N/100 mm (lb/in)	Adhesive Type	Adhesion Strength N/100 mm (oz/in)
818	0.95 x 5.1 (3/8 x 2)	Yes	Red, White, Blue, Yellow	None	25 per Pad	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)
	2.5 x 10.2 (1 x 4)	Yes	Red, White, Blue, Yellow	None	25 per Pad	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)
818CP	Custom Size	—	Red, White, Blue, Yellow	Custom Print	25 per Pad	Polypropylene	0.079 (3.1)	613 (35)	Synthetic Rubber	60 (55)

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

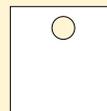


Hole Styles



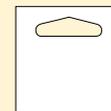
J-Hook

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

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Product	Size (height x width) cm (in)	Hole Style	Colour	Hang Tabs per Pad	Backing Material	Total Thickness mm (mils)	Adhesive Type	Adhesion Strength N/100 mm (oz/in)
1072	2.2 x 3.5 (7/8 x 1-3/8)	J-Hook	Clear	Individual	Polyester	0.66 (25.8)	Synthetic Rubber	192 (175)
1074	2.5 x 5.1 (1 x 2)	Round	Clear	10 per pad	Polyester	0.34 (13.5)	Synthetic Rubber	60 (55)
1075	5.1 x 5.1 (2 x 2)	Delta	Clear	10 per pad	Polyester	0.34 (13.5)	Synthetic Rubber	60 (55)
1076	5.1 x 5.1 (2 x 2)	Round	Clear	10 per pad	Polyester	0.34 (13.5)	Synthetic Rubber	60 (55)

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 cm (h x w)	Printed Message	Applications	Core Size (cm)	Material Type	Total Thickness mm (mils)	Tensile Strength N/100 mm (lb/in)	Adhesive Type	Adhesion Strength N/100 mm (oz/in)	Dispenser Options
Pads										
830	12.7 x 15.2	"Documents Enclosed"	25 per pad	—	Polypropylene	0.064 (2.5)	525 (30)	Synthetic Rubber	55 (50)	—
8240P	12.7 x 15.2	"Packing List Enclosed"	25 per pad	—	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	—
830CP	12.7 x 15.2	Custom Print	25 per pad	—	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	—
832	15.2 x 25.4	"Documents Enclosed"	25 per pad	—	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	—
832CP	15.2 x 25.4	Custom Print	25 per pad	—	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	—
Rolls										
824	12.7 x 15.2	"Documents Enclosed"	333 per roll	7.6	Polypropylene	0.064 (2.5)	525 (30)	Synthetic Rubber	55 (50)	M727 or M797
8240	12.7 x 15.2	"Documents Enclosed"	500 per roll	7.6	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	M727 or M797
825	12.7 x 15.2	"Documents Enclosed"	250 per roll	2.5	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	—
827	12.7 x 20.3	"Documents Enclosed"	500 per roll	7.6	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	M727 or M797
	15.2 x 20.3	"Documents Enclosed"	500 per roll	7.6	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	M797
	15.2 x 25.4	"Documents Enclosed"	400 per roll	7.6	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	M797
829	12.7 x 20.3	"Packing List Enclosed"	333 per roll	7.6	Polypropylene	0.048 (1.9)	385 (22)		44 (40)	M727 or M797
828CP	14.4 x 25.4	Custom Print Custom Size	—	7.6	Polypropylene	0.064 (2.5)	525 (30)		55 (50)	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 colour tape option draws attention to important label content



Product	Roll Width(s) Available (cm)	Roll Length	Colour	Backing Material	Total Thickness mm (mils)	Tensile Strength N/100 mm (lb/in)	Adhesive Type	Adhesion Strength N/100 mm (oz/in)	Elongation (%)	Comments
356	2.5, 5.1, 7.6, 10.2, 15.2	72 yd.	Clear	Polyester	0.041 (1.6)	438 (25)	Acrylic	22 (20)	90	Excellent transparency and resistance to abrasion, moisture and chemicals; Go-to option for outdoor applications
821	5.1, 7.6, 10.2, 12.7, 15.2	72 yd.	Pink	Acetate	0.063 (2.5)	210 (12)	Acrylic	27 (25)	15	Low-glare matte finish. Write-on surface; Hand-tearable — no dispenser needed
823	9.6	66 m	Bright Yellow	Polypropylene	0.060 (2.4)	525 (30)	Synthetic Rubber	65 (60)	160	Bright yellow colour draws attention; Excellent transparency
3565	7.2, 9.6, 12, 14.4	100 m	Clear	Polypropylene	0.048 (1.9)	385 (22)	Synthetic Rubber	44 (40)	160	Excellent transparency and conformability; Resists tearing, splitting, moisture, abrasion and smudges
3765	9.6, 12, 14.4	132 m	Clear	Polypropylene	0.038 (1.5)	350 (20)	Acrylic	24 (22)	119	Good transparency; Recommended for cold temperature applications

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

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: 0.051 mm (2.0 mil); Total thickness: 0.127 mm (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 11.4 cm x 13.9 cm (4.5" x 5.5") 1,000/case</p>  <p>side-load</p>	<p>T1 INV INVOICE ENCLOSED 11.4 cm x 13.9 cm (4.5" x 5.5") 1,000/case</p>  <p>side-load</p>	<p>T3 PACKING LIST/ INVOICE ENCLOSED 17.8 cm x 13.9 cm (7" x 5.5") 1,000/case</p>  <p>top-load</p>
<p>T1 PL PACKING LIST ENCLOSED 11.4 cm x 13.9 cm (4.5" x 5.5") 1,000/case</p>  <p>side-load</p>	<p>T2 PACKING LIST/ INVOICE ENCLOSED 11.4 cm x 15.2 cm (4.5" x 6") 1,000/case</p>  <p>side-load</p>	<p>T4 PACKING LIST/ INVOICE ENCLOSED 13.9 cm x 25.4 cm (5.5" x 10") 1,000/case</p>  <p>side-load</p>
NP (Non-Printed)		
<p>NP1 NO PRINT (CLEAR) 11.4 cm x 13.9 cm (4.5" x 5.5") 1,000/case</p>  <p>side-load</p>	<p>NP6 NO PRINT (CLEAR) 24.1 cm x 30.5 cm (9.5" x 12") 1,000/case</p>  <p>side-load</p>	<p>F1 PACKING LIST/ INVOICE ENCLOSED 11.4 cm x 13.9 cm (4.5" x 5.5") 1,000/case</p>  <p>side-load</p>
<p>NP2 NO PRINT (CLEAR) 11.4 cm x 15.2 cm (4.5" x 6") 1,000/case</p>  <p>top-load</p>	<p>NP9 NO PRINT (CLEAR) 17.8 cm x 15.2 cm (7" x 6") 1,000/case</p>  <p>top-load</p>	<p>F1 PL PACKING LIST ENCLOSED 11.4 cm x 13.9 cm (4.5" x 5.5") 1,000/case</p>  <p>side-load</p>
<p>NP3 NO PRINT (CLEAR) 13.9 cm x 17.8 cm (5.5" x 7") 1,000/case</p>  <p>top-load</p>	<p>FED1 NO PRINT (PERFED) 17.1 cm x 27.3 cm (6.75" x 10.75") 500/case</p>  <p>top-load</p>	<p>Zipper Closure Envelope</p>
<p>NP4 NO PRINT (CLEAR) 13.9 cm x 25.4 cm (5.5" x 10") 1,000/case</p>  <p>side-load</p>	<p>NPZL NO PRINT (CLEAR) 21.6 cm x 29.2 cm (8.5" x 11.5") 500/case</p>  <p>side-load</p>	<p>NPZXL NO PRINT (CLEAR) 25.4 cm x 31.8 cm (10" x 12.5") 500/case</p>
<p>NP5 NO PRINT (CLEAR) 17.8 cm x 25.4 cm (7" x 10") 1,000/case</p>  <p>side-load</p>	<p><i>Got the zip!</i></p>	

Custom Packaging

Scotch® Tear Strip Tapes

Easy Access With a Simple Pull

For easy opening of packages ranging from overnight envelopes to corrugated fibreboard, 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 fibreboard 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 fibreboard as used in household detergent boxes.

Product	Backing Material	Reinforcement	Adhesive Type	Tensile Strength N/100 mm (lb/in)	Total Thickness mm (mils)	Adhesion Strength N/100 mm (oz/in)	Elongation (%)	Colour	Comments
ASTM Test Method				D-3759	D-3652	D-3330			
8621	Polypropylene	Polypropylene	Synthetic Rubber	2802 (160)	—	70 (64)	30	White	Reinforced tear strip for improved nick resistance on a wide range of light- to heavy-weight paperboard and corrugated fibreboard
8622	Polypropylene	Polypropylene	None	3327 (190)	0.21 (8.4)	0 (0)	30	Red/Clear	Easy open feature when used with Scotch® Film Tape for heavy bag sealing
8624	Polypropylene	None	Synthetic Rubber	2802 (160)	0.114 (4.5)	71 (65)	30	Blue	Medium-strength tear strip for light- to medium-weight fibreboard packaging materials
8626	Polypropylene	None	Synthetic Rubber	3853 (220)	0.157 (6.2)	82 (75)	30	Ivory	Heavy duty high-strength tear strip for medium to heavy-weight fibreboard packaging materials
8640	Polypropylene	Polypropylene	Synthetic Rubber	3327 (190)	0.14 (5.6)	73 (67)	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

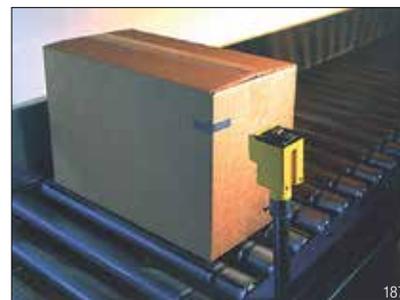
Product	Tensile Strength N/100 mm (lb/in)	Backing Material	Reinforcement	Adhesive Type	Adhesion Strength N/100 mm (oz/in)	Total Thickness mm (mils)	Elongation (%)	Colour	Width(s) cm (in)	Core Size cm (in)
ASTM Test Method		D-3759			D-3330	D-3652				
8631	2800 (160)	Polypropylene	Polypropylene	Synthetic Rubber	73 (67)	—	30%	Clear	0.64 (0.25)	15.2 (6)
8635	2452 (140)	Polyethylene	None	Synthetic Rubber	68 (62)	0.102 (4.0)	60%	Black	0.6, 0.9 (0.24, 0.35)	15.2 (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 mm (in.)	Temperature Resistance – Intermittent °C (°F)	Lens	Colour
				-4 deg.	45 deg.				
3000X	Micro-cube corner sheeting/ acrylic adhesive/paper liner	Yes	Sheets and Rolls	1000x	1500x	0.5 (0.020)	65.5 (150)	Protected	White with linear pattern
7590	Sealed reflective tape/ low temperature synthetic resin/liner	Yes	Rolls	200x	80x	0.18 (0.007)	204 (400)	Protected	Opaque White
7610	Exposed reflective tape/ synthetic resin/liner	Yes	Rolls	900x	700x	0.1 (0.004)	121 (250)	Exposed	Light Grey
7800	Exposed-lens reflective tape/ synthetic resin/linerless	No	Rolls	200x	100x	0.18 (0.007)	260 (500)	Exposed	Medium Grey

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 Vapour Transmission Rate

A measure of the rate of water vapour transmission through a pressure sensitive product usually measured in grams per square metre 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 millimetres. 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 centre 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 Vapour Transmission (WVTR)

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

*Compiled by 3M.

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3M Custom Packaging Hotline: 1-800-253-2329

3M Industrial Technical Support: 1-888-726-8244

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1507-01840

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