

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 86 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, 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.



31

Scotch

3M-Matic Case Sealing Systems







Right tapes. Right system. Right partner.

3M Packaging Solutions









Packaging Equipment and Dispensers	Packaging	Equipment ar	d Dispensers
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3M-Matic [™] Case Sealers Selection Overview	6-7
3M-Matic™ Adjustable Case Sealers	8-9
3M-Matic™ Random Case Sealers	10
3M™ AccuGlide™ Taping Head Technology	1 ¹
Customized 3M-Matic™ Equipment	1
Non-RSC Closure Solutions	12
3M-Matic™ Case Sealers Replacement Parts and Accessories	13
Scotch® and Tartan™ Manual Tape Dispensers	14–16
3M Systems Tape Agreement	17

Box Sealing Tapes

Scotch® and Tartan™ Box Sealing Tapes	2 ⁻
Scotch® Recycled Corrugate Tapes	
Scotch® Custom Printed Box Sealing Tapes	
Scotch® Cold Temperature Tape	
Scotch® Security Tapes	
Scotch® Specialty Box Sealing Tapes	
Light Duty Packaging Tapes	

High Strength Tapes

High Strength Tapes	29
High Strength Filament Tapes	
Tensilized Polypropylene Tapes	
Scotch® Reinforced Strapping Tapes	
Scotch® Stretchable Tapes	

3M™ Carry Handles......36-37

Custom Packing Solutions

Glossary	45-46
Scotch® Tear Strip Tapes	44
Remote Sensing Tapes	
3M™ Packing List Envelopes	
Label Protection Tapes	
Scotch® Pouch Tapes	41
3M™ Hang Tabs	40
Scotch® Bag Conveying Tape	
3M™ Tape Pads	
Bag Sealing Tapes	
Scotch® Multipack Tapes	38

Numerical Index......47 Product Name Index......48-49





ERECTING & PACKING

Throughput & speed

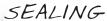
Case erectors Ergo packs



Consistency Security Protection

Non-RSC

3M™ AccuGlide™ Tape Head Technology



Semi-automatic Hand applied Bag sealing



Recycled corrugate?

RSC



Security

BUNDLING

L-CLIP CLOSURE

Tech support Before & after the sale



Ease of use

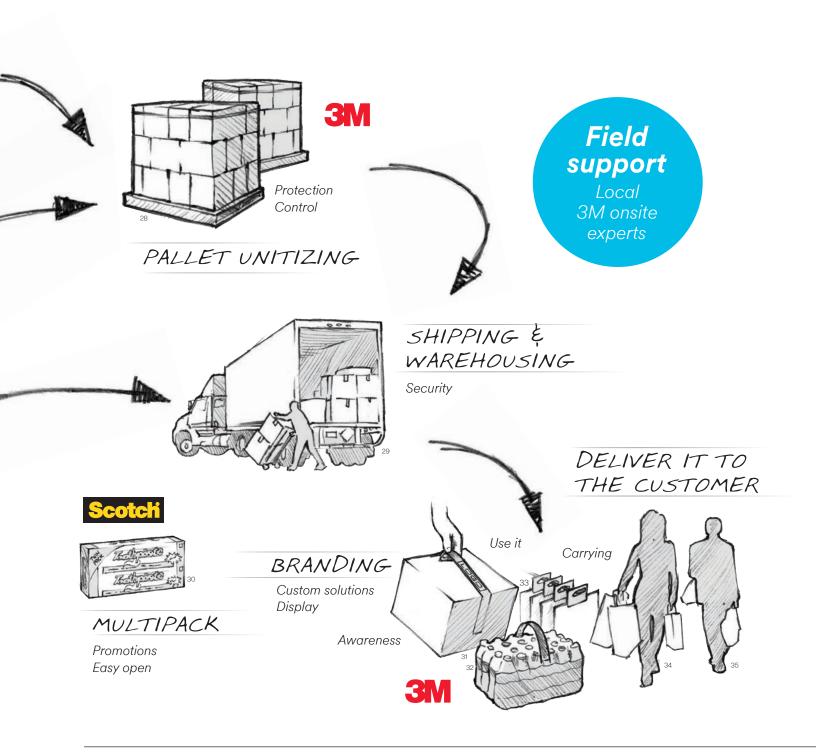
PACKING STATIONS

> Document attachment Label protection **Patching**



The Total Package

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





How do you get your packages securely sealed, out the door and into the hands of your customers in the fastest, most efficient manner? It starts with 3M-Matic™ Case Sealers. For 50 years, packaging facilities everywhere have relied on these productivity-enhancing solutions for consistent, efficient case sealing, day after day.





3M-Matic[™] Case Sealer

Things to Consider When Selecting a Case Sealer

Do you pre-form your boxes? What style box do you use?

- RSC (Regular Slotted Carton)
- FPF (Five Panel Fold)
- Full overlap

What closure method do you use?

- RGT (Reinforced Gum Tape)
- Pressure-sensitive box sealing tape
- Glue
- Staples

How many boxes do you seal per day?

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

3M-Matic[™] Case Sealers Selection Overview



For Sealing Uniform Size Boxes



^{*}Available with 3 inch taping head.

Manually Adjustable, **Semi-Automatic** 8000af Up to 40 cs/min Up to 85 lbs Side belt drives

Manually Adjustable, Semi-Automatic Affordable for Low Volume



200a* Up to 40 cs/min Up to 85 lbs Bottom belt drive



800ab Narrow cases Bottom only taping Up to 40 cs/min Up to 85 lbs Side belt drives



800asb Small cases Up to 28 cs/min Up to 85 lbs Side belt drives



7000a Pro Up to 40 cs/min Up to 85 lbs Top/bottom belt drives



8000a Up to 40 cs/min Up to 85 lbs Side belt drives

^{*}Available with 3 inch taping head.



3M-Matic[™] Case Sealers Selection Overview



For Sealing Various Size Boxes

800r*

Up to 20 cs/min Up to 85 lbs Side belt drives



800rks¹

Up to 10 cs/min Up to 200 lbs Top/bottom side belt drives



7000r Pro*

Up to 24 cs/min Up to 85 lbs Top/bottom belt drives



7000r HS Pro*

Up to 28 cs/min Up to 60 lbs Top/bottom belt drives

Non-RSC Box



S867

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



S867 II

3M-Matic™ Dual L-Clip Applicator S867 II applies two 4.5 inch L-Clips of Scotch® Filament or Reinforced Strapping Tape on the same edge at up to 50 clips/min.

Self-Adjusting, **Fully-Automatic** Flap Folding



800rf*

Up to 10 cs/min Up to 65 lbs Side belt drives

*Available with 3 inch taping head.

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

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

Belt Drive Key

2 = Bottom belt drives

7 = Top and bottom belt drives

8 = Side belt drives

Box Type

a = Adjustable, for batch runs

r = Random, for mixed runs

Additional Capability

b = Bottom only

f = Flap folding

ks = King size

sb = Small box

^{*}Available with 3 inch taping head.

[†]Comes standard with 3 inch taping head.

3M-Matic[™] Adjustable Case Sealers



Gain 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 to name a few.



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.



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



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



3M-Matic™ Adjustable Case Sealer 700a-s

has advanced features to seal uniform cases at 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.

Bottom Belt Drive Systems

		Box Size	e Capacit	y (inches)						O	Belt-Drive																	
	Drive	Minimum			Maximum			Power Requirements		Operating Rate	Speed																	
Machine	System	L	W	Н	L	W	Н	Electrical	Air	(cs/min)	ft/min (m/s)	Taping Head	Comments															
a20		6.0	6.5	4.25	N/L	21.5	21.5	115VAC 60Hz	No Air	Up to 30	78 (0,4)	2" 3M™ AccuGlide™	Entry Level															
a20-s	Bottom 6.0	0.0	0.0	[3.5]	IV/ L	21.5	21.5	2.8A 360W		001030	70 (0,4)	2+	Stainless Steel															
200a	Pottom	ottom 6.0	0.0	0.0	0.0	6.0	6.0	6.0	6.0	60	6.0	60	60	6.0	6.0	6.0		6.5	4.5	NI /I	04.5	24.5	115VAC 60Hz	NI. A.	11. 1. 10	100 (0.5)	2" 3M™ AccuGlide™ 3	Semi-Automatic
200a3	Bottom 6		7.5	[3.75]	N/L	21.5	[28.5]	1.9A 220W	No Air	Up to 40	100 (0,5)	3" 3M™ AccuGlide™ 3	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

•					•																										
		Box Size	e Capacit	ty (inches))			Operating			Belt-Drive																				
	Drive	Minimu	ım		Maximu	ım		Power Requirements		Davis Paguiramanta		Power Requirements		Power Requirements		Davis Paguiramanta		Dougas Doggissomonto		Davis Paguiramanta		Power Requirements		Dougas Doggissamonto		Davida Daguiramanta		Operating Rate	Speed		
Machine	System	L	W	Н	L	W	Н	Electrical	Air	(cs/min)	ft/min (m/s)	Taping Head	Comments																		
700a-s	Top and Bottom	6.0	6.0	4.75	N/L	21.5	24.5	115VAC 60Hz 3.8A 440W	No Air	Up to 30	78 (0,4)	2" 3M™ AccuGlide™ 2+ Stainless Steel	For Corrosive Environment																		
7000a Pro	Top and	6.0	6.5	4.75	NI /I	06.5	00.0	115VAC 60Hz	Nia Ain	U= 4= 40	100 (0 F)	2" 3M™ AccuGlide™ 3	Extended size capabilities are																		
7000a3 Pro	Bottom	6.0	0.5	4.75	IN/L	N/L 26.5 28.0 3.8A 440W No Air Up to		Up to 40 100 (0,5)		3" 3M™ AccuGlide™ 3	possible, please contact 3M																				

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





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



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



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



3M-Matic™ Case Sealer 8000af is an automatic flap folding machine that seals both the top and bottom of a box without an operator.



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



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

Side Belt Drive Systems

		Box Siz	e Capacit	v (inches)									
	Drive	Minimu		y (inches,	Maximu	ım		Power Requireme	ents	Operating	Belt-Drive			
Machine	System			Н	L	W	Н	Electrical	Air	Rate (cs/min)	Speed ft/min (m/s)	Taping Head	Comments	
a80	Side	6.0	4.75	4.5	N/L	21.5	21.5	115VAC 60Hz	No Air	U= 4= 20	70 (0.4)	2" 3M™ AccuGlide™ 2+	Fator Lavel	
a80-3	Side	6.0	5.75	4.5	IN/L	21.5	21.5	3.8A 440W	INO AIF	Up to 30	78 (0,4)	3" 3M™ AccuGlide™ 2+	Entry Level	
a80b	Side	6.0	4.75	3.5	0.5 N.4		N/L	115VAC 60Hz	No Air	Up to 30	78 (0,4)	2" 3M™ AccuGlide™ 2+	Entry Level	
a80b-3	Side	6.0	5.75	3.3	N/L	21.5	IN/ L	3.8A 440W	INO AII	00 10 30	70 (0,4)	3" 3M™ AccuGlide™ 2+	Bottom Taping Only	
8000a	Side	6.0	4.5	4.75	N/L	21.5	28.5	28.5 115VAC 60Hz	No Air	Up to 40	100 (0,5)	2" 3M™ AccuGlide™ 3	Extended size capabilities are possible, please contact 3M	
8000a3	Side	6.0	5.5	4.75	IN/ L	21.5	28.5	3.8A 440W	140 All	ор 10 40	.55 (5,5)	3" 3M™ AccuGlide™ 3		
800asb	Side	6.0	3.9	2.75	N/L	21.5	22.25	115VAC 60Hz 3.8A 440W	No Air	Up to 28	57 (0,3)	1.5" 3M™ AccuGlide™ II	Small Box	
800ab	Side	6.0	5.5		N/L	21.5	N/L	115VAC 60Hz	No Air	Up to 40	100 (0,5)	2" 3M™ AccuGlide™ 3	Bottom Taping	
800ab3	Side	0.0	3.3		IN/ L	21.5	IN/ L	3.8A 440W	NO All	Op 10 40	100 (0,3)	3" 3M™ AccuGlide™ 3	Only	
8000af	Side	6.0	4.75	4.5	30	21.5 28.5		115VAC 60Hz		Up to 40	100 (0,5)	2" 3M™ AccuGlide™ 3	Flap-Folding	
8000af3		5.0	5.75	7.0	30	21.0	20.0	3.8A 440W @ 85 PSIG		Op 10 40	100 (0,0)	3" 3M™ AccuGlide™ 3	Trup Folding	
a80-t	Side	6.0	4.75	4.5	N/L	21.5	21.5	115VAC 60Hz 3.8A 440W	No Air	Up to 30	78 (0,4)	2" 3M™ AccuGlide™ 2+	Entry Level Pack Station	

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



Gain 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. The 3M™ AccuGlide™ 2+ and 3 Taping Heads securely apply tape with low impact to protect even lightweight cases.



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.



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.



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.



3M-Matic™ Random Case Sealer 7000r High Speed Pro is a random size case sealer designed to automatically adjust to a variety of box sizes. It can seal up to 28 different case sizes per minute.



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

	Box Size Capacity (inches)									Belt-Drive							
	Drive Minimu		Minimum			um		Power Poquiroments		Operating Rate	Speed						
Machine	System L	L	W	Н	L	W	Н	Electrical	Air	(cs/min)	ft/min (m/s)	Taping Head	Comments				
7000r Pro	Top and	6.0 6.	G.F.	4.5	N/L	00.5	000	115VAC 60Hz	3.75 SCFM @ 85 PSIG	Up to 24	100 (0,5)	2" 3M™ AccuGlide™ 3					
7000r3 Pro	Bottom		0.5	4.5	IN/L	26.5	26.0	3.8A 440W				3" 3M™ AccuGlide™ 3	Extended size				
7000r			0 7.0					3.5			27.0					2" 3M™ AccuGlide™ 4	capabilities are
HS Pro	Top and	70		3.5	N/L	26.0		115VAC 60Hz	15 SCFM	Up to 28	150 (0.76)	2 Sivi Accuditue 4	possible, please				
7000r3	Bottom 7.0		2.7*	1 4/ L	20.0	38.13*	9.5A 1140W	@ 90 PSIG	OP 10 20	100 (0,70)	3" 3M™ AccuGlide™ 4	contact 3M					
HS Pro			2.7*		30.13		00.10					O OW ACCOUNTED					

^{*}Requires special setup.

Side Belt Drive Systems

		Box Size	e Capacit	ty (inches	s)						D !! D :		
	Drive	Minimum M		Maximu	ım		Power Requirements	Operating Rate	Belt-Drive Speed				
Machine	System	L	W	Н	L	W	Н	Electrical	Air	(cs/min)	ft/min (m/s)	Taping Head	Comments
800r	Side	8.0	4.0	5.0	N/L	20.0	21.0	115VAC 60Hz	3.75 SCFM	Up to 20	100 (0,5)	2" 3M™ AccuGlide™ 3	Semi- Automatic
800r3	Side 8.0	4.0 5.0	IN/ L	. 20.0	[25.25]	3.8A 440W	@ 85 PSIG	Op 10 20	100 (0,0)	3" 3M™ AccuGlide™ 3	Random		
800rks	Side	15.0	6.0	12.0	N/L	30.0	50.0	208/240VAC 3Ph 60Hz 6.6A 1500W	6.25 SCFM @ 85 PSIG	Up to 10	78 (0,4)	3" 3M™ AccuGlide™ 2+	Random King Size
800rf								208/240VAC 3Ph	7.0 SCFM			2" 3M™ AccuGlide™ 3	Fully-
800rf3	OOrf3	Side 8.0	8.0 5.5 6.0	6.0	5.0 24.0	4.0 20.0	20.0	60Hz 5.5A 1300W	@ 75 PSIG	Up to 10	100 (0,5)	3" 3M™ AccuGlide™ 3	Automatic

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 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™ 4

Narrow profile taping head designed to fit any case sealing system. Great for higher speed packaging lines.



3M™ AccuGlide™ NPH

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



3M™ AccuGlide™ 3

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



3M™ AccuGlide™ LHB

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



3M™ AccuGlide™ 2+

Speeds up to 80 ft. per minute. Stainless steel option available.



3M™ AccuGlide™ HST

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

Customized 3M-Matic[™] Equipment

Built around your product needs.

A leading player 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



Box Lift for Low Height Cases



Wide Roll Taping

Non-RSC Closure Solutions

A range of solutions can help increase throughput while decreasing packaging costs.

- Solutions for start-ups
- Automation for large companies

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

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

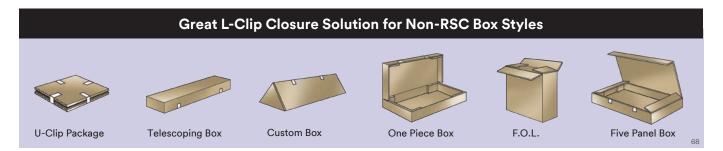






Table Top L-Clip Applicators

Features	Box Sealer S634
Tape Type(s)	Filament Tape Light Duty Packaging Tape, Upper Scotch® Packaging Tape
Can L-Clip These Package Types	Corrugate
Applied Tape Length	4.5 inch (144mm)
Tape Width Options	0.375-1.5 inch (9.5-36mm)
Cutting Method	Serrated blade cuts tape as box passes L-Clip application mechanism





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.



For replacement parts contact CSPD at Combi: 1-800-344-9883



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.



Low Tape Indicator Light Kit

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



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.



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.



Box Hold Down Attachment

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



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® and Tartan™ Manual Tape Dispensers

Scotch® Box Sealing Tape Dispenser HR80/HR83

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



Scotch® Low Noise Box **Sealing Tape Dispenser** H150/H153

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



Tartan™ Box Sealing Hand Dispenser HR933

Tape dispenser with a retractable blade.



Scotch® Heavy-Duty **Dispensers**

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



Scotch® Box Sealing Tape Dispensers

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







Scotch® Filament Tape Dispensers

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







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

Scotch® Bag Sealers

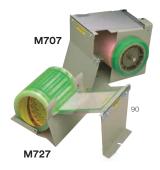
Applies tape in an adhesiveto-adhesive flag seal.





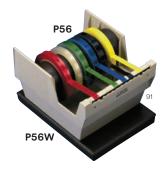
3M™ Electric Water Activated Tape Dispenser

Dispenser has a heated water reservoir that speeds tape activation. Dispenses a pre-set length of water-activated tape at the push of a button. (Manual version also available.)



Scotch® Label **Protection Dispensers**

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



Scotch® Multi-Roll Dispenser

Dispenser for pull and tear of up to 6 inches total width of tapes. P56W offers weighted base. (P52/P52W also available for up to 2" total width tape.)



Scotch® Definite **Length Dispensers**

Dispensers that deliver a uniform length of 3M™ Narrow Width Tape and Scotch® Filament Tapes every time quickly and easily. (M82 and M900 are also available for wider tape dispensing.)

Scotch® and Tartan™ Manual Tape Dispensers

Easy dispensing for manufacturing, office, commercial and retail jobs.

All Scotch® and Tartan™ Manual Tape 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-He	ld Box Sealing Tape Dispensers	<u>'</u>
H122	Durable plastic dispenser with built-in brake for precise seals	48mm
H123	Lightweight, compact metal tape dispenser	72mm
H128	Heavy-duty durable metal tape dispenser	48mm
H129	Quick and easy one hand method to apply, cut, and buff the tape closures	48mm
H150	Tape dispenser designed to reduce the noise of tape unwind during application	48mm
H153	Tape dispenser designed to reduce the noise of tape unwind during application	72mm
H180	Portable and easy to operate pistol grip dispenser	48mm
H183	Portable and easy to operate pistol grip dispenser	72mm
H190	Pistol grip dispenser features pull apart design	48mm
H192	Ergonomical tape dispenser with hand brake	48mm
H320	Ultra-light, economical, plastic tape dispenser	48mm
HB902	Economical, compact, and lightweight tape dispenser	48mm
HB903	Economical pistol grip tape dispenser	48mm
HR80	Portable, lightweight, easy to operate, dispenser with a retractable blade	48mm
HR83	Portable, lightweight, easy to operate, dispenser with a retractable blade	72mm
HR933	Tape dispenser with a retractable blade	72mm
Hand-He	ld Filament Tape Dispensers	
H10	Durable, lightweight plastic tape dispenser	24mm
H12	Portable, plastic dispenser features a hand brake to add tension to the tape roll	24mm
H121	Durable, metal dispenser allows operator to add tension for a tighter tape application	24mm
H128	Heavy-duty, metal dispenser commonly used to dispense tapes 8959 and 890	48mm
H130	Portable, plastic dispenser features a hand brake to add tension to the tape roll	18mm
H131	Quick and easy one hand method to apply, cut, and buff the tape closures	18mm
H133	Quick and easy one hand method to apply, cut, and buff the tape closures	18mm
HB901	Economical and portable tape dispenser	24mm
Table Top	Dispensers	
C22	Weighted dispenser for easy pull and cut tape dispensing	2 in
C23	Weighted dispenser for easy pull and cut tape dispensing	1 in
C25	Weighted dispenser for easy pull and cut tape dispensing	1 in
HB900	Weighted, slip-proof base for quick and easy one-handed operation	1 in
M82	Definite length dispenser handles multiple rolls of tape commonly dispensed with filament and light duty tapes	96mm
M96	Definite length dispenser — dispenses tape in lengths of 3/4 inch to 5 inch per stroke	1 in
M900	Durable, metal construction dispenses a uniform length of packaging tape from 1-1/2 inch to 16 inch	3 in
M920	Definite length dispenser — dispenses tape in lengths of 1/2 inch to 4 inch per stroke	1 in
P52	Mainline tabletop manual pull and cut dispenser with multiple roll capacity	2 in
P52W	Mainline tabletop manual pull and cut dispenser with multiple roll capacity (comes with weighted base)	2 in
P56	Mainline tabletop manual pull and cut dispenser with multiple roll capacity	6 in
P56W	Mainline tabletop manual pull and cut dispenser with multiple roll capacity (comes with weighted base)	6 in
P448	Metal dispenser that handles multiple rolls for easy dispensing	8 in
S634	Semi-automatically applies L-Clip of tape to a box using filament or light duty tapes	18mm
W100	Manually dispenses pre-set length of water-activated tapes	3 in
W200	Electronic dispenser — dispenses a pre-set length of water-activated tape at the push of a button	3 in
Specialty	Tape Dispensers	
H38	Durable dispenser specially designed for stretch tapes 8884 and 8886	36mm
M707	Heavy duty metal dispenser with auxiliary holder and cutter for 3/4-inch rolls of tape — commonly used with tapes 821 and 823	4 in
M727	Metal construction provides easy dispensing of pouch tapes 824, 827 and 829	5 in
M797	Metal construction provides easy dispensing of pouch tape 827	6 in
P400	Bag sealer — applies tape in an adhesive-to-adhesive — flag seal (includes bag trimmer)	3/4 in



3M Systems Tape Agreement

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

The more tape you purchase, the greater your savings!



BUY a new 3M-Matic™ Case Sealer plus Scotch® Box Sealing Tape and GET a cash rebate or accessories at no additional charge!

Earn Cash Rebates*

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

Add Credits Towards a New Case Sealer**

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



Sign a second 3M Systems Tape Agreement, get another taping accessory at no additional charge. 3M tape dispensers available with qualifying purchases.

^{*}Rebate check is paid directly from 3M to customer after completing purchase of 3M-Matic™ Case Sealing Equipment and qualifying tape products. Fixed dollar amount of rebate is determined by the model. Other conditions may apply. Contact your 3M Representative for more details.

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

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



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

Technology that really delivers.

- Seal cartons reliably without the mess, dwell time and equipment maintenance of hot melt adhesive
- Two choices of pressure sensitive adhesive, each with a different combination of properties
- Backing choices for specific performance properties

3M eliminates 99% of organic solvents in production of Scotch® Box Sealing Tape.

Our Scotch® Recycled Corrugate Tape 3073 is made with an adhesive that contains over 10% bio-based content. All recycled corrugate tapes use recycled materials in the core to help with your sustainability goals.

Visit 3M.com/sustainability for more goals.



Caring for the environment now and for the future.

Scotch® Box Sealing Tapes solve common package sealing problems:



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



Solution: Initial adhesion and holding power of Scotch® Box Sealing Tapes ensure a secure sealing throughout a supply chain.



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



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

Tape Backing and Adhesive Selection Guide

		Strongest backing	Highest temperature resistance				
Ct and	Polyester	Excellent abrasion resistance	 Transparency 				
Step 1		Moisture and chemical resistance					
Select Tape		Strong backing	Most economical				
Backing	Polypropylene	Good abrasion resistance	 Transparency 				
		Good conformability					
		Excellent holding power					
C+ 0	Synthetic Rubber	Good initial adhesion above 40°F					
Step 2		Meets ASTM D-5486 government specification					
Select Tape		Excellent initial adhesion over a broad temperature range					
Adhesive	Acrylic	Extremely long performance life					
		UV and chemical resistance					

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 are standing by to help.

Box Sealing Tape Selector

Use this selector to help determine a box sealing tape that meets your packaging needs. **The suggestions provided by this method must be confirmed by testing.** Additional packaging and shipping factors should also be considered.

Circle the point value that best d	escribes your op	erations
	Point Value	Points
1. How much does the filled	l box weigh?	
a. 10 pounds	10	
b. 20 pounds	20	
c. 30 pounds	25	
d. 40 pounds	30	
e. 50 pounds	35	
f. 70 pounds	45	
g. 80 pounds	50	
h. 100 pounds	60	
2. What is the carton burst	/ECT test?	
a. 150 SW/26	5	
b. 175 SW/29	10	
c. 200 SW/32	15	
d. 250 SW/40	20	
e. 275 SW/44	25	
f. 350 SW/55	30	
g. 200 DW/42	35	
h. 275 DW/48	40	
i. 350 DW/51	45	
3. What is the value of cont	ents?	
a. <\$100	10	
b. \$100-\$1000	25	
c. >\$1000	40	
4. What is the method of sh	ipment?	
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	
Tota	al Points	



These suggestions are based on experience, but there are factors which could alter the overall performance. For example:

Cartons with center seam gap greater than 3/4" or over packed/under packed cartons should be tested with 3" (72mm) wide tape

Hard-to-stick surfaces and Recycled Corrugate Boxes, test Scotch® Recycled Corrugate Tape 371+, 3071 and 3073

Box sealing tapes are available custom printed and with standard security messages

Applications when tape is applied under 40°F, test Scotch® Box Sealing Tape 311+, 313 and 3073

If your package is unusual in size, shape, or load, try the 3M Technical Service Request (TSR) Program. Using the 3M TSR Program, a 3M representative will work with you on initial testing of a Scotch® Box Sealing Tape. One or two best options will be identified then a sample of your substrate is brought to the 3M Laboratories and tested for stress or other factors the product will encounter. The 3M test results will help you select the best box sealing tape for your manufacturing process and customer needs.

Scotch[®] and Tartan[™] Box Sealing Tapes

Dependability for food and beverage, electronics, e-fulfillment, pharmaceuticals and more.

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

- Reliability even with the stresses of over packed or under packed boxes
- Quick, easy application by hand, manual dispensers or 3M-Matic[™] Case Sealers

• Choice of lengths, widths, backings, adhesives and colors to meet specific needs



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



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



Product	Tape Structure (Backing/Adhesive)	Adhesion to Steel oz/in (N/100mm)	Tensile Strength Ibs/in (N/100mm)	Elongation at Break (%)	Backing Thickness mils (mm)	Total Thickness mils (mm)	Available Colors/Comments		
ASTM Te	st Method	D-3330	D-3759	D-3759	D-3652	D-3652			
Scotch®	Scotch® Box Sealing Tapes								
311+		38 (42)	25 (438)	125	1.1 (0.028)	2.05 (0.052)			
313	Polypropylene/ Acrylic	32 (35)	35 (613)	125	1.6 (0.041)	2.55 (0.065)	Clear		
315		38 (41.5)	23 (403)	200	2.3 (0.058)	3.5 (0.089)			
351		78 (85)	67 (1174)	130	2.0 (0.051)	3.43 (0.087)	Clear, Tan or Custom Printed		
353	Polyester/ Synthetic Rubber	45 (49)	25 (438)	110	1.0 (0.025)	1.9 (0.048)	Clear, Tan		
355		78 (85)	67 (1174)	130	2.0 (0.051)	3.43 (0.087)	Clear, Tan or Custom Printed		
371		40 (44)	22 (385)	160	1.2 (0.030)	1.8 (0.046)	Clear, Tan, Blue, Green, Orange, Red, White, Yellow or Custom Printed		
371+	Polypropylene/	42 (46)	22 (385)	160	1.2 (0.030)	1.9 (0.050)	Clear or Custom Printed		
373	Synthetic Rubber	50 (55)	30 (525)	160	1.6 (0.041)	2.5 (0.064)	Clear, Tan, Blue, Green, Orange, Red, White, Yellow or Custom Printed		
375		55 (60)	35 (613)	160	2.0 (0.051)	3.1 (0.079)	Clear, Tan or Custom Printed		
Tartan™ B	Box Sealing Tapes								
302	Polypropylene/	14 (15)	18 (309)	110	1.0 (0.025)	1.7 (0.042)			
305	Acrylic	16 (18)	18 (309)	110	1.0 (0.025)	1.8 (0.045)	Clear, Tan		
369	Polypropylene/ Synthetic Rubber	30 (33)	19 (333)	160	1.0 (0.025)	1.6 (0.041)			



Scotch® Recycled Corrugate Tapes

With environmental standards changing rapidly and companies constantly seeking new ways to reduce costs and improve their environmental footprint, packaging materials are in a constant state of flux. Scotch® Recycled Corrugate Tapes are designed to help you stay on top of the changes.

- They're tackier than conventional box sealing tapes
- Made with a proprietary adhesive designed specifically for recycled corrugate cartons

Who knows what kind of abuse your box goes though after it leaves your facility? Make sure it stays sealed with Scotch® High Tack Box Sealing Tape 371+.





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

Excellent performance — even on highly recycled corrugated boxes.

Be confident your boxes will stay closed throughout the entire supply chain with industrial-strength Scotch® High Tack Box Sealing Tape 371+.

• Adheres to a wide range of materials, including corrugated boxes with 100% recycled content

• Polypropylene backing with synthetic rubber adhesive conforms around edges and rough surfaces

- Good edge tear and split resistance
- Resists abrasion, moisture, chemicals and scuffing
- Easy to unwind and dispense by hand, with manual dispensers, or with 3M-Matic™ Case Sealers



Product	Tape Structure (Backing/Adhesive)	Adhesion to Steel oz/in (N/100mm)		Elongation at Break (%)	Backing Thickness mils (mm)	Total Thickness mils (mm)	Available Colors/Comments
ASTM Test Method		D-3330	D-3759	D-3759	D-3652	D-3652	
311+	Polypropylene/Acrylic	38 (42)	25 (438)	125	1.1 (0.028)	2.05 (0.052)	Clear
371+	Polypropylene/	42 (46)	22 (385)	160	1.2 (0.030)	1.9 (0.050)	Clear and Custom Printed;
3073	Synthetic Rubber	46 (50)	30 (525)	160	1.6 (0.041)	2.6 (0.066)	on recycled corrugate cartons

Scotch® Custom Printed Box Sealing Tapes

Let them know exactly who the package came from.

With every delivery, Scotch® Custom Printed Box Sealing Tape helps you differentiate your packages from the competitors. Whether you include your logo, tagline or other promotional messaging, your package will surely get noticed.

- Printed message won't rub off during transit
- Can be used to print handing instructions or labeling, replacing the need to carry large inventories of various printed cartons
- Adds security by discouraging tampering



Easily conforms around edges	1
Strong seal on rough surfaces	✓
Holds through wide temperature variations	✓
Resists moisture in storage and shipping	✓
Resists nicks and abrasions	✓
Ideal for food and beverage	✓
Quick, easy application	✓



Scotch® Box Sealing Tapes can be custom printed in up to 10 colors. Choose from the entire library of Pantone® Inks to match your logo brand or theme.

Product	Tape Structure (Backing/Adhesive)	Adhesion to Steel oz/in (N/100mm)	Tensile Strength Ibs/in (N/100mm)	Elongation at Break (%)	Backing Thickness mils (mm)	Total Thickness mils (mm)	Available Colors/Comments
ASTM Tes	t Method	D-3330	D-3759	D-3759	D-3652	D-3652	
355CP	Polyester/ Synthetic Rubber	78 (85)	67 (1174)	130	2.0 (0.051)	3.43 (0.087)	Clear, Tan
371CP		40 (44)	22 (385)	160	1.2 (0.030)	1.8 (0.046)	Clear, Tan, Blue, Green, Orange, Red, White, Yellow
373CP		50 (55)	30 (525)	160	1.6 (0.041)	2.5 (0.064)	Clear, Tan, Blue, Green, Orange, Red, White, Yellow
375CP	Polypropylene/ Synthetic Rubber	55 (60)	35 (613)	160	2.0 (0.051)	3.1 (0.079)	Clear, Tan
3071CP		45 (49)	22 (385)	160	1.2 (0.030)	2.1 (0.053)	For use on recycled corrugate cartons
3073CP		46 (50)	30 (525)	160	1.6 (0.041)	2.6 (0.066)	10% bio-based content and for use on recycled corrugate cartons

PANTONE® is the property of Pantone LLC.

Scotch® Cold Temperature Tape

Extreme performance even in cold temperatures.

- Adheres to a variety of surfaces, including on corrugated boxes with over 70% recycled content.
- Can be applied at freezer and refrigeration temperatures of 20°F to 50°F (-6.6°C to 10°C).
- Once applied, performs well on fiberboard boxes subjected to temperatures below 32°F (0°C).
- Quick, easy application by hand, manual dispensers or 3M-Matic[™] Case Sealers.



Product	Tape Structure (Backing/Adhesive)	Adhesion to Steel oz/in (N/100mm)	Tensile Strength Ibs/in (N/100mm)	Elongation at Break (%)	Backing Thickness mils (mm)	Total Thickness mils (mm)	Available Colors/Comments
ASTM Te	st Method	D-3330	D-3759	D-3759	D-3652	D-3652	
311+	Polypropylene/Acrylic	38 (42)	25 (438)	125	1.1 (0.028)	2.05 (0.052)	Clear

Scotch® Security Tapes



Scotch® Specialty Box Sealing Tapes

lbs/in (N/100mm)

D-3759

35 (543)

45 (790)

49 (858)

50 (858)

23 / 23 (Kraft)

8.5

at Break (%)

D-3759

2

2

2

Dependability for security, 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.

Adhesion to Steel oz/in (N/100mm)

D-3330

78 (85)

41 (45)

69 (75)

69 (75)

Tape Structure (Backing/Adhesive)

Kraft Paper/Rubber

Flatback Paper/ Rubber

ASTM Test Method

Box Repair Tapes

2517

2519

2525

2526

6147



Orange, Premium splicing

White, Excellent adhesion

Kraft (Tan) or Custom Printed

Product	Tape Structure (Backing/Adhesive)	Basis Weight	Caliper (mils)	Tensile Strength (lbs / in)	Tear Strength (grams)	Available Colors/Comments
ASTM Te	st Method	D-646	D-645	D-5803	D-1922	
Water Ad	ctivated Tapes					
6141		35	3.5	30	72	
6142	Paper backing/gummed modified cornstarch based adhesive	60	5.5	44	125	Kraft (Tan) or Custom Printed
6143		90	7.5	58	200	
6144		23 / 23	4.9	45-50	N/A	Kraft (Tan) or Custom Printed
6145	Paper backing with filament reinforcement/gummed modified cornstarch based adhesive	23 / 23 (Kraft) 30 / 23 (White)	5.0 (Kraft) 7.3 (White)	52-57	N/A	Kraft (Tan), White or Custom Printed
6146		30 / 23	6.5	60-65	N/A	Kraft (Tan) or Custom Printed

60-65

N/A

7.7 (0.19)

8.0 (0.20)

9.5 (0.24)

9.8 (0.24)

Product	Tape Structure (Backing/Adhesive)	Adhesion to Steel oz/in (N/100mm)	Tensile Strength lbs/in (N/100mm)	Elongation at Break (%)	Backing Thickness mils (mm)	Total Thickness mils (mm)	Available Colors/Comments
ASTM Tes	t Method	D-3330	D-3759	D-3759	D-3652	D-3652	
Security 7	Tapes						
3199	Polypropylene/ Acrylic	22 (24)	25 (438)	125	1.1 (0.028)	2.05 (0.052)	Clear with Red Type: CHECK SEAL BEFORE ACCEPTING
3732		50 (55)	30 (525)	160	1.6 (0.041)	2.5 (0.064)	Tan with Red Type: IF SEAL IS BROKEN CHECK CONTENTS BEFORE ACCEPTING
3771		40 (44)	22 (385)	160	1.2 (0.030)	1.8 (0.046)	White with Red Type: IF SEAL IS BROKEN CHECK CONTENTS BEFORE ACCEPTING
3772	Polypropylene/ Synthetic Rubber	40 (44)	22 (385)	160	1.2 (0.030)	1.8 (0.046)	White with Red Type: FRAGILE HANDLE WITH CARE
3775		40 (44)	22 (385)	160	1.2 (0.030)	1.8 (0.046)	White with Red Type: MIXED MERCHANDISE ENCLOSED
3779		40 (44)	22 (385)	160	1.2 (0.030)	1.8 (0.046)	Clear with Red Type: CHECK SEAL BEFORE ACCEPTING

Light Duty Packaging Tapes

Versatility with choices of film backings and adhesives for application success.

Typical Light Duty Applications

- Garment bundling
- Plastic bag closure
- Party tray closure
- Small box closure
- Document envelope closure
- Inner pack box closure





Scotch® Light Duty Packaging Tape 640 **Clean Removal Apparel**

UPVC backing with clean removal acrylic adhesive for a wide variety of fabric finishes and treatments, including for tabbing shirts and underwear.



Scotch® Light Duty Packaging Tape 605 **Cold Temperature**

Polypropylene backing with acrylic adhesive for cold temperature applications, such as closing a plastic tray lid.



Scotch® Light Duty Packaging Tape 600 **High Clarity**

UPVC backing with high tack acrylic adhesive for holding apparel.

Scotch® Color **Coding Tape 690** UPVC backing with natural

rubber adhesive for sealing and color coding.



Variety of Surfaces

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

Light Duty Packaging Tapes

Product	Color	Backing Material	Backing Thickness mils (mm)	Total Thickness mils (mm)	Tensile Strength Ib/in (N/100mm)	Adhesive Type	Adhesion to Steel oz/in (N/100mm)	Elonga- tion (%)	Typical Use	Comments
Light Du	ty Packaging	Tapes	,			,				
600	Clear	UPVC	1.5 (0.038)	2.3 (0.058)	28 (490)	Acrylic	32 (35)	45	L-Clip closure, attaching, tabbing and holding	Excellent handling, high clarity and long aging
605	Clear	Polypropylene	1.6 (0.041)	2.5 (0.064)	22 (385)	Acrylic	27 (30)	57	Cold temperature packaging	Cold temperature applications; Complies to FDA Regulations for indirect food contact
610	Clear	Cellophane	1.4 (0.036)	2.3 (0.058)	23 (402)	Natural Rubber	33 (36)	15	Splicing	High heat applications up to 300°F
640	Clear	UPVC	1.2 (0.030)	1.9 (0.048)	32 (560)	Acrylic	22 (25)	65	Tabbing and holding of apparel	Clean removal from wide variety of fabrics and substrates
660	Red	Cellophane	1.4 (0.036)	2.5 (0.064)	20 (350)	Natural Rubber	50 (55)	10	Splicing and easy detection	High heat applications up to 300°F; High adhesion
681	Clear	UPVC	1.5 (0.038)	2.4 (0.061)	25 (438)	Natural Rubber	40 (44)	35	Sealing	Resists moisture and chemicals; Heat shrinkable; Complies with US FDA 21 CFR 175.105 for indirect food contact
690	Black, Blue, Green, Red, Yellow, White	UPVC	1.5 (0.038)	2.3 (0.058)	35 (613)	Natural Rubber	30 (33)	45	Color coding	Resists moisture and chemicals; Heat shrinkable
856	Transparent	Polyester	1.0 (0.025)	2.0 (0.051)	25 (438)	Acrylic	20 (22)	90	Tough backing for good tear resistance	Tough backing for good tear resistance
5910	Clear	Polypropylene	1.2 (0.030)	2.0 (0.051)	18 (315)	Acrylic	16 (17)	90	Utility grade for light duty packaging	Conforms easily
Fingerpr	int Lifting Tap	е								
8004	Clear	Polypropylene	1.4 (0.036)	2.0 (0.051)	18 (315)	Acrylic	16 (17)	90	Ultra clear tape; Handles easily	Lift and preserve physical evidence such as fingerprints

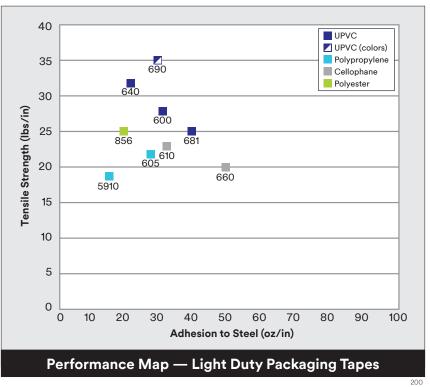
Technologies matched to the applications.

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

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





on 3M's consistently reliable, high strength tapes that are engineered to meet virtually any strapping, bundling or reinforcing challenge.

High Strength Tapes



For packaging and non-packaging applications.

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 facilities churn out consistent and reliable products, roll after roll.

Streamlined selection for application success.



Product	Description	Tensile Strength*
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



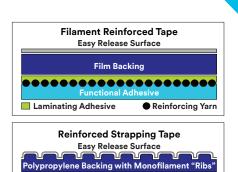


BUNDLING

Up to 270 lbs/in

Carpet Bundling

PVC Pipe Bundling





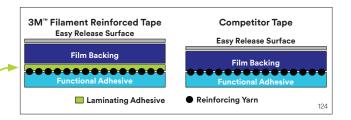


Product	Description	Tensile Strength*
898	Glass yarn reinforced, first choice for L- or U-Clip closure of non-RSC boxes	380 lbs/in
890MSR	Glass yarn reinforced, modified synthetic rubber adhesive for oily surfaces	600 lbs/in
8899НР	Tensilized polypropylene, clean removal	160 lbs/in

*ASTM Test Method D-3759.

High Strength Filament Tapes

A 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.



Scotch® High Strength Filament Tape 898



Scotch® High Strength Filament Tape 890MSR (Black)



Tartan™ High Strength Filament Tape 8934



Scotch® High Strength Filament Tape 880

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



Scotch® Bi-Directional Filament Tape 8959

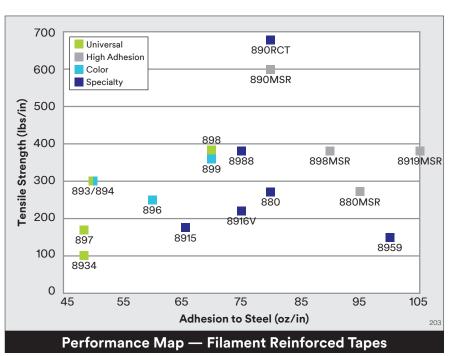
- Superior cut and puncture resistance
- Extra box or package security against pilferage
- Highest adhesion in our high strength tape offering

Choice of Backings

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

Choice of Filament

- **Fiberglass:** Higher tensile strength for security and stretch resistance for stability
- Polyester: Higher elongation for better shock absorption and impact resistant





High Strength Filament Tapes

				Total		Adhesion			
Product	Tensile Strength Ib/in (N/100mm)	Backing Material	Reinforcement	Thickness mils (mm)	Adhesive Type	Strength oz/in (N/100mm)	Elongation (%)	Backing Color	Typical Use and Comments
ASTM Test Method	D-3759			D-3652		D-3330			
Universal F	ilament		1	ı	<u>'</u>	1			
898	380 (6655)	Polypropylene	Glass Yarn	6.6 (0.168)	Synthetic Rubber (SR)	70 (77)	5	Clear	L-Clip box closure, General bundling and reinforcing; Very high strength, Versatile, Good adhesion to many substrates
893	300 (5254)	Polypropylene	Glass Yarn	5.3 (0.135)	Synthetic Rubber (SR)	50 (55)	4	Clear	Box closing, palletizing, strapping, bundling and reinforcing; High strength
897	170 (2977)	Polypropylene	Glass Yarn	5.0 (0.127)	Synthetic Rubber (SR)	50 (55)	4	Clear	Box closing, palletizing, strapping, bundling and reinforcing; Medium strength
8934	100 (1751)	Polypropylene	Glass Yarn	4.0 (0.102)	Synthetic Rubber (SR)	48 (53)	3	Clear	Box closing, palletizing, strapping, bundling and reinforcing; Utility
Colored Fi	lament								
899	360 (6305)	Polypropylene	Glass Yarn	6.6 (0.168)	Synthetic Rubber (SR)	70 (77)	3	Red	General bundling and reinforcing; Red color for increased visible and detection
894	300 (5254)	Polypropylene	Glass Yarn	6.0 (0.15)	Synthetic Rubber (SR)	50 (55)	4.5	Black	Pipe bundling and other outdoor applications; High UV resistance
896	240 (4203)	Polypropylene	Glass Yarn	5.4 (0.137)	Synthetic Rubber (SR)	60 (66)	3	White	Heavy box closure, general bundling and reinforcing; White boxes, Color coding
High Adhe	sion Filament		1	ı	<u>'</u>	ı			
890MSR	600 (10508)	Polyester	Glass Yarn	8.0 (0.203)	Modified Synthetic Rubber (MSR)	80 (88)	3	Clear/ Black	Metal coil closure; Good adhesion to oily surfaces
898MSR	380 (6655)	Polyester	Glass Yarn	6.0 (0.15)	Modified Synthetic Rubber (MSR)	90 (99)	3	Clear	Metal coil closure; Good adhesion to oily surfaces
8919MSR	380 (6655)	Polyester	Glass Yarn	7.0 (0.180)	Modified Synthetic Rubber (MSR)	105 (110)	3	Clear	Metal coil closure; Good adhesion to oily surfaces, Thicker backing for improved handling
880MSR	270 (4728)	Polyester	Polyester Yarn	7.7 (0.196)	Modified Synthetic Rubber (MSR)	95 (104)	19	Clear	Metal coil closure; Good adhesion to oily surfaces, High cut resistance
Specialty F	ilament								
890RCT	680 (11909)	Polyester	Glass Yarn	8.0 (0.203)	Synthetic Rubber (RCT)	80 (88)	5	Clear	Basiloid, Heavy appliance lifting; Good adhesion to recycled corrugate
8988	380 (6655)	Polypropylene	Glass Yarn	6.9 (0.175)	Synthetic Rubber (RCT)	75 (82)	3	Clear	L-Clip box closure; Good adhesion to recycled corrugate
880	270 (4728)	Polypropylene	Polyester Yarn	7.7 (0.196)	Synthetic Rubber (SR)	80 (88)	19	Clear	Pipe and conduit, bundling and color coding; Excellent shock resistance
8959	150 (2627)	Polypropylene	Bi-Directional Yarn	5.7 (0.145)	Synthetic Rubber (SR)	100 (109)	6	Clear	Heavy box closure, Splicing, Metal parts bundling; Bi-directional filament for excellent cut and puncture resistance; High adhesion
8916V	210 (3678)	Polypropylene	Glass Yarn	6.8 (0.172)	Synthetic Rubber (SR)	75 (82)	3	Clear/ Blue	Appliance, Secure and stabilize parts; Clean removal, Thicker backing
8915	170 (2977)	Polypropylene	Glass Yarn	6.0 (0.15)	Synthetic Rubber (SR)	65 (71)	3	Clear	Appliance, Secure and stabilize parts; Clean removal

Tensilized Polypropylene Tapes

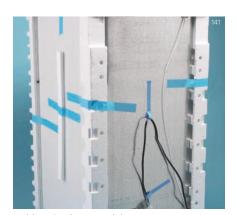
Clean removal.

- MOPP (monoaxially-oriented polypropylene) tape construction
- High strength tapes that hold firm, remove cleanly with no adhesive residue
- Great adhesion to vinyl and other plastics, glass, painted and unpainted metals, 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-tomanage parts firmly in place.



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

Product	Tensile Strength Ib/in (N/100mm)	Backing Material	Reinforcement	Total Thickness mils (mm)	Adhesive Type	Adhesion Strength oz/in (N/100mm)	Elongation (%)	Color	Typical Use and Comments
ASTM Test Method	D-3759			D-3652		D-3330			
8899HP	160 (2802)	Polypropylene	None	4.8 (0.12)	Rubber	45 (49)	30	Blue/ Ivory/ White	Secure and stabilize parts, clean removal and high/low temperature performance
8898	160 (2802)	Polypropylene	None	4.6 (0.117)	Synthetic Rubber	75 (82)	32	Blue/ Ivory	Appliance, Secure and stabilize parts; Clean removal, High adhesion
860	110 (1926)	Polypropylene	None	2.8 (0.071)	Synthetic Rubber	45 (49)	33	Black	General bundling and strapping; Utility grade for pallet unitizing

Scotch® Reinforced Strapping Tapes



3M's CLEAREST high-strength tape available.



Why 3M?

Strong: Polypropylene backing extruded to create monofilament "ribs"

Secure: Resists nicking, cutting, tearing or puncturing during handling

Clear: No filaments to obstruct graphics









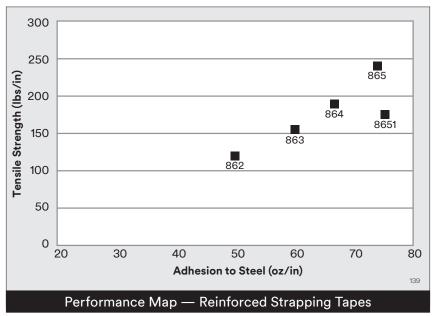








Scotch® Reinforced Strapping Tape 862



Product	Clarity to Showcase Marketing Content	Barcode Scannable	Resists Nicks	Resists Abrasion	Does it Scratch?
A. Reinforced Strapping Tape	Yes	Yes	Yes	Yes	No
B. Reinforced Gummed Paper Tape	No	No	Yes	Somewhat	No
C. Staples	Somewhat	No	N/A	N/A	Yes
D. Filament Tape	Somewhat	No	Yes	Yes	No
E. Tensilized Polypropylene Tape	No	No	No	Yes	No

Product	Tensile Strength Ib/in (N/100mm)	Backing Material	Reinforcement	Total Thickness mils (mm)	Adhesive Type	Adhesion Strength oz/in (N/100mm)	Elongation (%)	Color	Typical Use and Comments
ASTM Test Method	D-3759			D-3652		D-3330			
865	240 (4203)	Polypropylene	Polypropylene	6.4 (0.163)	Synthetic Rubber	74 (81)	30	Clear	Palletizing; L-Clip box closure; High clarity for use on highly graphic boxes; Bar code readable
864	190 (3327)	Polypropylene	Polypropylene	5.6 (0.142)	Synthetic Rubber	67 (73)	30	Clear	Palletizing; L-Clip box closure; High clarity for use on highly graphic boxes; Bar code readable
8651	175 (3065)	Polypropylene	Polypropylene	5.6 (0.142)	Synthetic Rubber	75 (82)	30	Clear	Palletizing; L-Clip box closure; High clarity for use on highly graphic boxes; Bar code readable
863	155 (2714)	Polypropylene	Polypropylene	5.0 (0.127)	Synthetic Rubber	60 (66)	30	Clear	Palletizing; L-Clip box closure; High clarity for use on highly graphic boxes; Bar code readable
862	120 (2102)	Polypropylene	Polypropylene	4.6 (0.117)	Synthetic Rubber	50 (55)	30	Clear/ Black	Pipe Bundling; Black for UV resistance

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: 55-meter roll yields 357 meters of tape
- Creates ventilated load for shipment of time- and temperature-sensitive goods
- More stability less waste





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



"X"-pattern can contain loads for shipment anywhere.



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





Scotch® Stretchable Tape Dispenser H38

Hand-held dispenser with tensioning/ stretching brake for use with Scotch® Stretchable Tapes (see page 16).

Product	Tensile Strength lb/in (N/100mm)	Backing Material	Total Thickness mils (mm)	Adhesive Type	Adhesion Strength oz/in (N/100mm)	Elongation (%)	Color	Comments
ASTM Test Method	D-3759		D-3652		D-3330			
8886	28 (490)	Polyethylene	7.0 (0.18)	Synthetic Rubber	65 (71)	720	Clear	Load containment
8884	20 (350)	Polyethylene	5.0 (0.127)	Synthetic Rubber	70 (77)	710	Clear	Palletizing for intra-plant movement; Load containment; For hand application using Scotch® Stretchable Tape Dispenser H38



3M[™] Carry Handles

Applied at Retail Checkout

Convenience for your customer.

- Pre-cut padded carry handles for easy application
- 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 shopping bag. Save a bag...offer a handle
- Reduce plastic waste by 97%* by offering a carry handle
- *Based on weight of large plastic bag of 75 grams vs. 3M™ Carry Handle of 2.5 grams.



Pre-Applied By Manufacturer

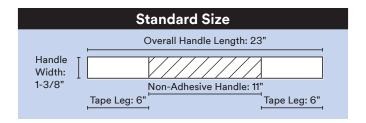
Give your products a lift.

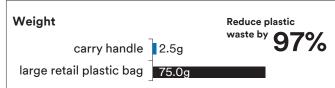
- Differentiate your on-shelf appeal customers will associate convenience with your brand
- Easily combine two stand up pouches for a unique duo-pouch solution
- Printed handles communicate drive brand awareness, augment or replace other package information
- Convenience: Promo packs and up-sized SKUs 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
- Range of carry handle options pre-cut (hand applied) or in-line pre-laminated (machine applied)



3M[™] Carry Handles





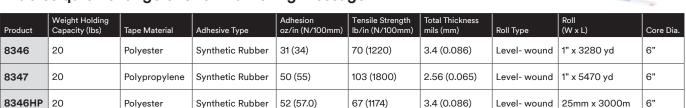




Pre-cut padded carry handles for hand application.

Product	Weight Holding Capacity (lbs)	Tape Material	Total Thickness mils (mm)	Tensile Strength lb/in (N/100mm)	Adhesive Type	Adhesion oz/in (N/100mm)	Pads per Case	Handles per Case	Handle (W x L)	Tape Leg Length
ASTM Test	Method		D-3652	D-3759		D-3330				
8310	10	Polypropylene	3.1 (0.079)	35 (613)	Synthetic Rubber	55 (60)	110	2750	1" x 17"	3"
8315	15	Polypropylene	3.2 (0.081)	35 (613)	Synthetic Rubber	55 (60)	80	2000	1-3/8" x 23"	6"
8320	20	Polyester	3.5 (0.089)	67 (1174)	Synthetic Rubber	78 (85)	110	2750	1" x 17"	3"
8330	30	Polyester	3.5 (0.089)	67 (1174)	Synthetic Rubber	78 (85)	80	2000	1-3/8" x 23"	6"
8340	40	Reinforced Strapping Tape	5.6 (0.142)	190 (3325)	Synthetic Rubber	67 (73)	80	2000	1-3/8" x 23"	6"
8350	50	Filament Tape	7.7 (0.196)	270 (4728)	Synthetic Rubber	80 (88)	80	2000	1-3/8" x 23"	6"





Pre-laminated carry handles for automated application. Perfect for long runs with limited change overs.

Polyester



^{*}Available materials include: paper (2 grades), clear polyethylene, white polyethylene, polypropylene foam or polyethylene foam.

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

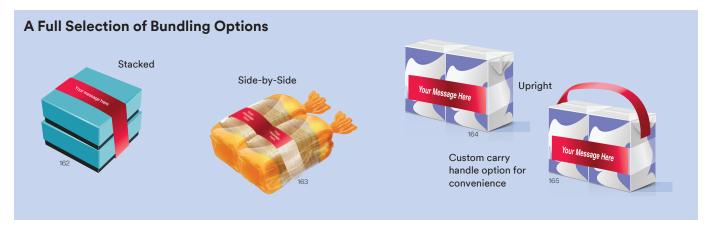
wrap before tunnel

Scotch® Multipack Tapes

Economical and sustainable alternative to shrink films, banding, boxes and bags.

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





Learn more about the Multipack Solution online. You'll find videos, and both tape and equipment details at 3M.com/Multipack

Product	Color	Backing Material	Backing Thickness mils (mm)	Total Thickness mils (mm)	Tensile Strength Ib/in (N/100mm)	Adhesive Type	Adhesion to Steel oz/in (N/100mm)	Elongation (%)	Comments
697	Clear	Polypropylene	1.6	1.9	23	Acrylic	4.78 (5.23)	77	Clean removal tape designed for multi-unit primary packaging; Apply manually or with automated
697CP	0.00.	. 6.7, p. 6, p. 10.10	(0.040)	(0.049)	(409)	7.6.7.10	0 (0.20)		equipment; 697CP is a custom printed version
699	Clear	Polypropylene	1.6	2.6	30	Synthetic	46 (50)	160	Designed for bundling multi-unit primary packaging; Combine with 3M™ Carry Handles for bundling
699CP	Cieal	тотургоругене	(0.041)	(0.066)	(525)	Rubber	40 (50)	100	pouches; Apply manually or with automated equipment; 699CP is a custom printed version

Bag Sealing Tapes



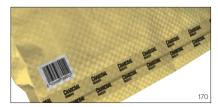
Stronger, faster, clearer than stitching closure for eye-popping woven polypropylene bags.

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

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



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



Custom printed tape for proof of factory seal.

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

3M[™] Tape Pads

No dispenser? No problem!

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



3M™ Packaging Tape Pad 3750P



3M™ Tape Sheets 822

Product	Sheet Size(s)	Color	Tape Material	Total Thickness mil (mm)	Tensile Strength lb/in (N/100mm)	Adhesive Type	Adhesion Strength oz/in (N/100mm)	Elongation (%)	Tab
809G	Custom Size	Transparent,				Synthetic			Removable or
809GP	Custom Size w/Custom Print	Red, Yellow	Polypropylene	3.1 (0.079)	35 (613)	Rubber	55 (60)	160	Permanent
809S	Custom Size w/ Custom Backsheet	Transparent	Polypropylene	3.1 (0.079)	35 (613)	Synthetic Rubber	55 (60)	160	Removable or Permanent
822	4" x 6"	Transmarant	Dolumenulana	21(0.070)	2E (C12)	Synthetic	EE (60)	160	Domovable
3750P	2" x 6"	Transparent	Polypropylene	3.1 (0.079)	35 (613)	Rubber	55 (60)	160	Removable

Scotch® Bag Conveying Tape

- 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



Product	Tensile Strength lb/in (N/100mm)	Backing Material	Reinforcement	Adhesive Type	Adhesion Strength oz/ in (N/100mm)	Total Thickness mils (mm)	Elongation (%)	Color	Width(s)	Core Size
ASTM Test Method	D-3759				D-3330	D-3652				
8635	140 (2452)	Polyethylene	None	Synthetic Rubber	62 (68)	4.0 (0.102)	60%	Black	6mm 9mm	6 in

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







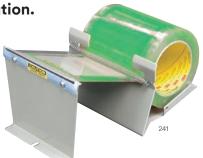
Product	Size (H x W)	Hole Style	Color	Hang Tabs per Pad	Backing Material	Total Thickness mil (mm)	Adhesive Type	Adhesion Strength oz/in (N/100mm)
1072	1-3/8" x 7/8"	J-Hook	Clear	Individual	Polyester	25.8 (0.66)	Synthetic Rubber	175 (192)
1074	1" x 2"	Round	Clear	10 per pad	Polyester	13.5 (0.34)	Synthetic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

Scotch® Pouch Tapes

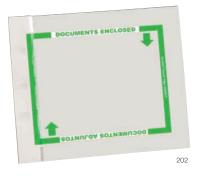


Strong, low-profile attachment solution.

- "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
- 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 824RCT — Available in rolls for easy dispensing at pack stations.



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

Product	Individual Pouch Size (h x w)	Printed Message	Applications	Core Size	Material Type	Total Thickness mils (mm)	Tensile Strength Ib/in (N/100mm)	Adhesive Type	Adhesion Strength oz/in (N/100mm)	Dispenser Options
Pads										
830RCT	5" x 6" 6" x 10"	"Documents Enclosed"	25 per pad	_	Polypropylene	2.6 (0.066)	30 (525)	Synthetic Rubber	46 (50)	_
Rolls										
824RCT	5" x 6" 5" x 8" 6" x 10"	"Documents Enclosed"	500 per roll	3"	Polypropylene	2.6 (0.066)	30 (525)	Synthetic Rubber	46 (50)	M727 or M797

Label Protection Tapes

Protect labeled shippers, mailers, envelopes, tubes, drums, tubs.

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



Product	Roll Width(s) Available	Roll Length	Color	Backing Material	Total Thickness mils (mm)	Tensile Strength lb/in (N/100mm)	Adhesive Type	Adhesion Strength oz/in (N/100mm)	Elongation (%)	Comments
821	2", 3", 4", 5", 6"	72 yd	Pink	Acetate	2.5 (0.063)	12 (210)	Acrylic	25 (27)	15	Low-glare matte finish. Write-on surface; Hand-tearable — no dispenser needed
856	1", 1.5", 2", 3", 4", 6"	72 yd	Clear	Polyester	2.0 (0.051)	25 (438)	Acrylic	20 (22)	90	Excellent transparency and resistance to abrasion, moisture and chemicals; Go-to option for outdoor applications
3565	96mm, 120mm	100m	Clear	Polypropylene	1.9 (0.048)	22 (385)	Synthetic Rubber	40 (44)	160	Excellent transparency and conformability; Resists tearing, splitting, moisture, abrasion and smudges
3765	96mm, 120mm, 144mm	132m	Clear	Polypropylene	1.5 (0.038)	20 (350)	Acrylic	22 (24)	119	Good transparency; Recommended for cold temperature applications

3M[™] Packing List Envelopes

Wide variety of choices for document control and protection.

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

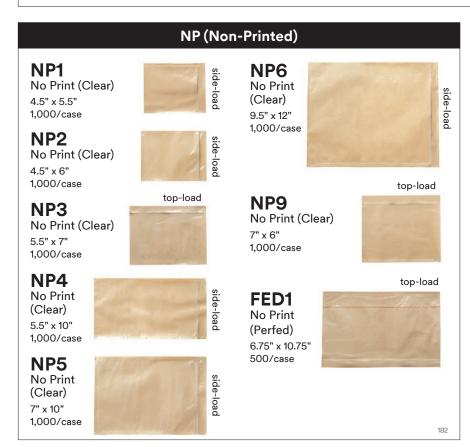


Easy Inspection — For cross border shipping and other inspection situations, zipper closure envelopes open easily and close securely. Tough construction resists moisture and abrasion.



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

T (Top Printed) top-load T1 INV **T3** T1 side-load side-load Packing List/ Invoice Enclosed Packing List/ Invoice Enclosed Invoice Enclosed 4.5" x 5.5" 4.5" x 5.5" 1,000/case 7" x 5.5" 1.000/case 1.000/case **T2** T1 PL Т4 side-load side-load side-load Packing List/ Packing List Packing List/ **Enclosed** Invoice Enclosed Invoice Enclosed 4.5" x 5.5" 4.5" x 6" 5.5" x 10" 1,000/case 1,000/case 1,000/case 182





F (Full Face Printed)

F1

Packing List/

Remote Sensing Tapes



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.



Many remote systems work by detecting light; usually reflected light. To perform at maximum efficiency, they need a reflector that offers maximum performance.



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

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 depthof-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

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™ 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

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

Scotch® Tear Strip Tape

Easy access with a simple pull.

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

- Tensilized polypropylene tears through paper board and light to heavy weight fiber board with high pull-rate success
- Eliminates knives or other sharp edges from opening envelopes and panels
- High pull rate for light to medium weight fiberboard such as CD and book mailers



Product	Backing Material	Reinforcement	Adhesive Type	Tensile Strength lb/in (N/100mm)	Total Thickness mils (mm)	Adhesion Strength oz/in (N/100mm)	Elongation (%)	Color	Comments
ASTM Te	st Method			D-3759	D-3652	D-3330			
8624	Polypropylene	None	Synthetic Rubber	160 (2802)	4.5 (0.114)	65 (71)	30	Blue	Medium-strength tear strip for light- to medium-weight fiberboard packaging materials



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 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.

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 or tape lifting or necking down.

Containment

To confine and hold in place.

Controlled Unwind*

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

Elastomer

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

Elongation (Stretch, Ultimate Elongation)

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

Extruded*

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

FOL

Full overlap.

Filaments

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

Holding Power (Shear Adhesion, Shear Resistance)

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

Hot Melt (Pressure Sensitive Adhesive)

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

Humidity

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

Impact Resistance (Shock Resistance)

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

L-Clip

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

Moisture Vapor Transmission Rate

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

MOPP

Monoaxially-oriented polypropylene tape construction.

NPE*

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

Non-RCS

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

Off-Core

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

Opacity

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

Pad

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

^{*}Compiled by 3M.

Glossary

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 pressures sensitive adhesive. When applied the adhesivefree 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.

Regular Slotted Carton.

Rubber Adhesive*

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

Shear Adhesion

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

Single Faced (Coated)

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

Solvent/Chemical Resistant*

Ability to resist common solvents or chemicals.

Surface Energy (Surface Wetting Ability)

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

Tack

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

Tear Resistance

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

Telescoping

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

Tensile Strength

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

Thickness (Caliper, Gauge)

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

TSCA*

Toxic Substances Control Act.

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

UL 723*

UL 723 deals mainly with flammability.

Unwind or Unwind Adhesion

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

Water Vapor Transmission (WVTR)

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

^{*}Compiled by 3M.

Numerical Index



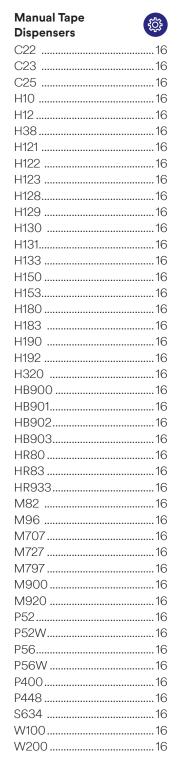
200a	8	864	33	7800	43
200a3	8	865	33	8000a	9
302	21	880	29, 31	8000a3	9
305	21	880MSR	31	8000af	9
311+	21, 22, 24	890MSR	29, 31	8000af3	9
313	21	890RCT	31	8004	27
315	21	893	29, 31	8310	37
351	21	894	31	8315	37
353	21	896	31	8320	37
355	21	897	29, 31	8330	37
355CP	23	898		8340	
369		898MSR	*	8346	
371		899		8346HP	
371+		1072		8347	
371CP		1074		8350	
373		1075		8381	
373CP		1076		8383	
375		2517		8393	
375CP		2519		8469	
600		2525		8469CP	
605		2526		8470	
610		3000X		8470CP	
640		3071CP		8622	
660		3073		8624	
681		3073 3073CP		8635	
690		3199		8651	
697		3565		8884	
697CP		3732		8886	
699		3750P		8898	
699CP		3765		8899HP	
700a-s		3771		8915	
800ab		3772		8916V	
800ab3		3775		8919MSR	
800asb		3779		8934	,
800r		5910		8959	
800r3		6141		8988	
800rf		6142		a20	
800rf3		6143		a20-s	
800rks		6144		a80	
809G	39	6145	25	a80-3	9
809GP	39	6146	25	a80-t	
809S	39	6147	25	a80b	9
824RCT	41	7000a Pro	8	a80b-3	9
830RCT	41	7000a3 Pro	8	C22	16
821	41	7000r HS Pro	10	C23	16
822	39	7000r Pro	10	C25	16
856	27, 41	7000r3 HS Pro	10	H10	16
860	29, 32	7000r3 Pro	10	H12	16
862	29, 33	7590	43	H38	16
863	33	7610	43	H121	16

H12216
H12316
H12816
H12916
H13016
H13116
H13316
H15016
H15316
H18016
H18316
H19016
H19216
H32016
HB90016
HB90116
HB90216
HB90316
HR8016
HR8316
HR93316
M8216
M9616
M70716
M72716
M79716
M90016
M92016
P5216
P52W16
P5616
P56W16
P40016
P44816
S63416
S86712
S8671112
W10016
W20016

Product Name Index

3M™ AccuGlide™ Taping Heads	Bag Conveying Tape		Carry Handles		High Strength Filament Tapes	A
2+	. 11 8635	40	8310	37	860	29
3	. 11		8315	37	862	29
4	. 11		8320	37	880	29, 31
HST	. 11 Bag Sealing Tapes		8330	37	880MSR	31
LHB	. 11		8340	37	890MSR	29, 31
NPH	.11 8469	39	8346	37	890RCT	31
	8469CP		8346HP	37	893	29, 31
	8470		8347	37	894	31
3M-Matic™ Adjustable	8470CP		8350	37	896	31
Case Sealers	8622		8381	37	897	29, 31
200a			8383	37	898	29, 3
200a3	_		8393	37	898MSR	31
7000a Pro					899	31
7000a3 Pro	box repair rapes				8899HP	29
700a-s		25	Cold Temperature		8915	31
8000a	2017		Tape		8934	29, 31
8000a3	2010		311+	24	8959	31
8000af	2020		011		8988	31
8000af3		25			8916V	31
800ab			Occations Builded		8919MSR	31
800ab3	9		Custom Printed Box Sealing Tapes			
800asb	Roy Sealing Tabes		• •	00		
a20	0		355CP 371CP		Label Protection	
a20-s	o 311+				Tapes	
a80	302		373CP		821	41
a80-3	305		375CP		856	
a80-t	م کائے		3071CP		3565	
a80b	315		3073CP	23	3765	
a80b-3	351				0700	······ ¬
4000 0	353					
	355		Fingerprint Lifting			
	369		Tape		Light Duty	
3M-Matic™ Random	371		8004	27	Packaging Tapes	0
Case Sealers	371+				600	
800r	010				605	
800r3	3/3	21	Hang Tabs		610	
800rf					640	
800rf3			1072	40	660	
800rks			1074	40	681	
7000r HS Pro			1075	40	690	
7000r Pro			1076		856	
7000r3 HS Pro					5910	27
7000r3 Pro	10					

Product Name Index



Multipack Tapes		Reinforced Strapping	P
007	20	Tapes 862	
697			,
697CP		863	
699		864	
699CP	38	865	
		8651	33
Non-RSC Closure	203		
Solutions	Ser.	Remote Sensing	
S867	12	Tapes	M
S867II	12	3000X	43
		7590	43
		7610	43
Packing List		7800	43
Envelopes			
F1	43		
FED1		Security Tapes	
NP1		occurry rupoc	
NP2		3199	25
NP3		3732	
NP4		3771	
NP5		3772	
NP6		3775	
NP9		3779	
		3779	25
NPZ-L			
NPZ-XL			
T1		Stretchable Tapes	M
T1 INV			
T1 PL		8884	34
T2		8886	34
T3			
T4	43		
		Tape Pads	
Pouch Tapes		809G	20
		809GP	
824RCT	41	809S	
830RCT		822	
		3750P	39
Recycled Corrugate			
Tapes		Tear Strip Tape	
311+	22	Tour outp tape	
371+	22	8624	11
3073	22	0024	44

Tensilized Polypropylene Tapes	
860	29, 32
8898	32
8899HP	29, 32
Water Activated Tapes	
6141	25
6142	25
6143	25
6144	25
6145	0.5

6146.....25

6147......25

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