



High Strength Tapes

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



High Strength Tapes

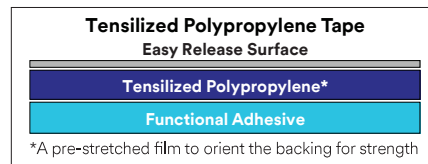
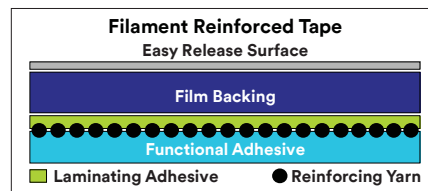
For packaging and non-packaging applications.

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.



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Pallet Unitizing



Carpet Bundling



L- and U-Clip Closures



Bundling for Shipping and Handling



PVC Pipe Bundling



Stabilizing Loose Parts



Bulk Bin or Skid Box Banding



Rebar Bundling



Metal Coil Tabbing

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

Product	Description	Tensile Strength*
897	Glass yarn reinforced	170 lbs/in
893	Glass yarn reinforced	300 lbs/in
880	Polyester yarn reinforced	270 lbs/in

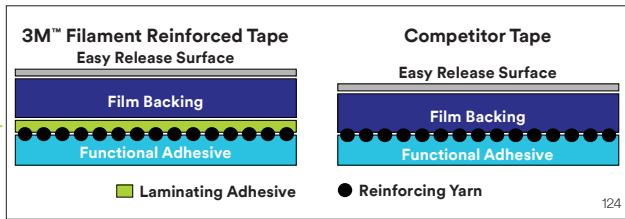
Product	Description	Tensile Strength*
898	Glass yarn reinforced, first choice for L- or U-Clip closure of non-RSC boxes	380 lbs/in
890MSR	Glass yarn reinforced, modified synthetic rubber adhesive for oily surfaces	600 lbs/in
8899HP	Tensitized polypropylene, clean removal	160 lbs/in

*ASTM Test Method D-3759.

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

High Strength Filament Tapes

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

Choice of Backings

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

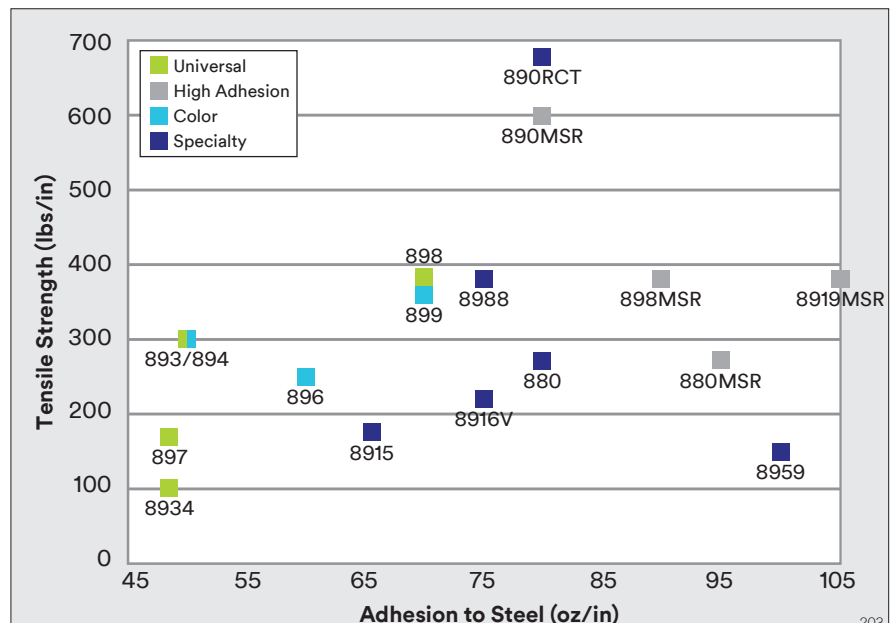
Choice of Filament

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



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



Performance Map — Filament Reinforced Tapes

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High Strength Filament Tapes

Product	Tensile Strength lb/in (N/100mm)	Backing Material	Reinforcement	Total Thickness mils (mm)	Adhesive Type	Adhesion Strength oz/in (N/100mm)	Elongation (%)	Backing Color	Typical Use and Comments
ASTM Test Method	D-3759			D-3652		D-3330			
Universal Filament									
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 Filament									
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 Adhesion Filament									
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 Filament									
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

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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, painted and unpainted metals, or powder coated
- Holds shelving, racks, doors, panels, cords, other parts in place, from plant to install

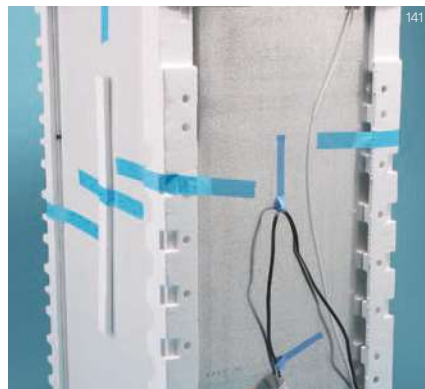


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Bundle plastic, metal, stainless steel, glass, powdercoat or other coated electronic, appliance or automotive parts during assembly and transportation.



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



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

Product	Tensile Strength lb/in (N/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

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Scotch® Reinforced Strapping Tapes

3M's **CLEAREST** high-strength tape available.

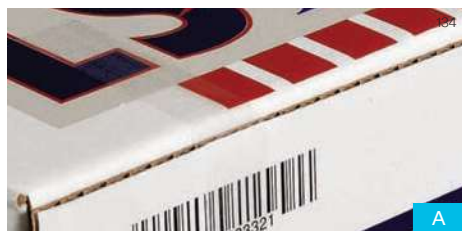


Why 3M?

Strong: Polypropylene backing extruded to create monofilament "ribs"

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

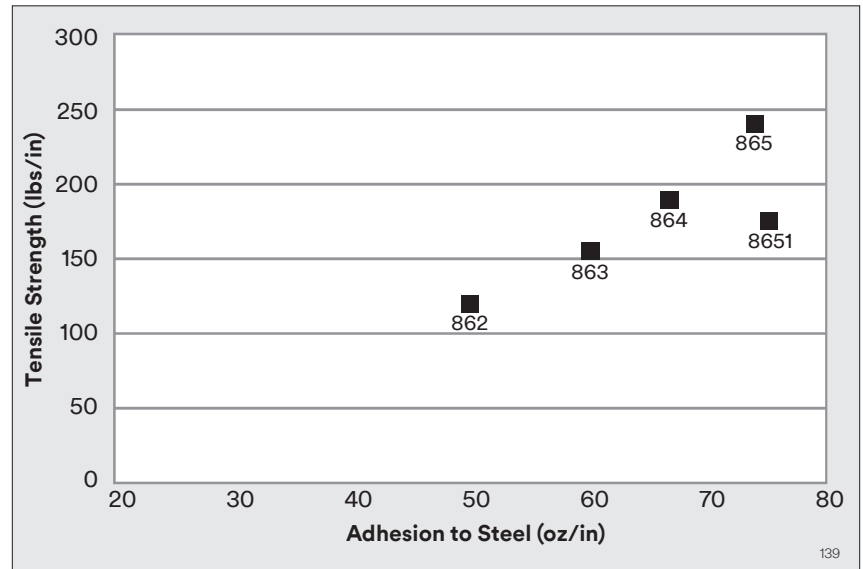
Clear: No filaments to obstruct graphics



Scotch® Reinforced Strapping Tape 8651



Scotch® Reinforced Strapping Tape 862



Performance Map — Reinforced Strapping Tapes

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. Tensitized Polypropylene Tape	No	No	No	Yes	No

Product	Tensile Strength lb/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

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