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Scotch® Filament Tape 894



Technical Data

June, 2009

Product Description

Scotch® Filament Tape 894 is a general-purpose packaging tape reinforced with continuous glass-yarn filaments that give the tape high tensile strength and low stretch. The 3M™ Scotchpro™ Film backing provides excellent abrasion and moisture resistance. The aggressive packaging-grade adhesive is specifically formulated to provide an excellent balance of high initial adhesion and long-term holding power to most surfaces. When used in bundling, reinforcing, or coil tabbing applications, where high temperatures and/or oily surfaces are involved, tests should be conducted per the individual application before extensive use to determine the tape's suitability.

Construction

Backing	Adhesive	Reinforcement	Backing Color
3M™ Scotchpro™ film	Pressure-sensitive rubber resin	Glass yarn	Black

Typical Physical Properties

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

		ASTM Test Method
Adhesion to Steel:	50 oz./in. width (55 N/100 mm width)	D-3330
Tensile Strength:	300 lbs./in. width (5250 N/100 mm width)	D-3759
Elongation at Break:	4.5%	D-3759
Total Thickness:	6.0 mil (0.15 mm)	D-3652

Features

- Protects adhesive from sunlight and ultraviolet rays.
- Good handling.
- High tensile strength combined with low stretch.
- Good initial and high shear adhesion.
- Black film backing makes outdoor storage possible.
- Tough film backing protects the filaments and adhesive to provide longer functional tape performance.
- Good handling characteristics saves time through ease of dispensing and tape application.
- High tensile strength allows use of less tape in many applications and lowers cost per application.
- Adhesive provides good holding under a wide range of application conditions with minimum amount of tape.
- Holds instantly with minimum rubdown.

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Available Sizes	Standard Widths:	.71 in. (18 mm)
	Core Size (ID):	3 in. (76.2 mm)
	Lengths:	60 yds. (55 m)

Application Techniques	An extensive line of application equipment is available including hand-held manual dispensers and an automatic L-clip applicator. Application of Scotch® Filament Tape 894 is most easily accomplished at room temperature because at colder temperatures, approaching 32°F (0°C), the adhesive becomes firmer. Once applied, Scotch® Tape 894 performs well throughout the normal temperature ranges typically encountered by packaged products in shipping and storage environments.
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Storage Conditions	Store behind present stock. Store in a clean, dry place. Temperature of 40-80°F (4-26°C) and 40-50% relative humidity are recommended. Rotate your stock.
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Shelf Life	To obtain best performance, use this product within 18 months from date of manufacture.
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Technical Information	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.
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Product Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.
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This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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