Scotch®
Filament Tape
8981

Technical Data **June, 2009**

Product Description

Scotch® Filament Tape 8981 is a high-performance packaging tape reinforced with continuous glass-yarn filaments that give the tape very high tensile strength and low stretch. The clear 3M™ Scotchpro™ backing provides excellent abrasion and moisture resistance. The aggressive packaging-grade adhesive is specifically formulated to provide an excellent balance of initial adhesion and long-term holding power to most fiberboard surfaces, including recycled and printed fiberboard surfaces.

Construction

Backing	Adhesive	Reinforcement	Backing Color
3M™ Scotchpro™ film	Pressure sensitive synthetic rubber resin	Glass yarn	Clear

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:	70 oz./in. width (77 N/100 mm width)	D-3330
Tensile Strength:	380 lbs./in. width (6655 N/100 mm width)	D-3759
Elongation at Break:	3%	D-3759
Total Thickness:	6.6 mil (0.168 mm)	D-3652

Features

- Meets ASTM D5330, Type II, which has replaced PPP-T-97E and CID A-A-1686A.
- Good handling.
- Printable.
- High tensile strength combined with low stretch.
- Allows printing and illustrations to be seen through the tape.
- High shear and good initial adhesion.
- Very good long-term holding power.
- 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.
- When printed, the tape provides advertising, warning, and labeling capability.
- High tensile strength allows the use of less tape in many applications and lowers the cost per application.
- Good clarity of artwork and important messages even when covered by the tape.
- Adhesive provides very good holding under wide range of application conditions with minimum amount of tape.
- Holds instantly with minimum rubdown.
- Boxes remain securely closed through normal warehouse time cycles.

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Available Sizes

Available Widths		Available Lengths
Standard Widths:	.47 in. (12 mm), .71 in. (18 mm), .94 in. (24 mm), 1.4 in. (36 mm), 1.9 in. (48 mm)	60 yds. (55 m)
	.47 in. (12 mm), .71 in. (18 mm)	361 yds. (330 m)
Core Size (ID):	3 in. (76.2 mm)	

Application Techniques

An extensive line of application equipment including hand-held manual dispensers and the 3M-Matic™ Semi-Automatic L-Clip Applicator S857 is available. Application of Scotch® Filament Tape 8981 is most easily accomplished at room temperature because at colder temperatures, approaching 32°F (0°C), the adhesive becomes firmer. Once applied, Scotch® Tape 8981 performs well throughout the normal temperature ranges typically encountered by packaged products in shipping and storage environments.

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.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

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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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

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