



Technical Data Sheet

3M™ Scotch® Bi-Directional Filament Tape
8959



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

Scotch® Filament Tape 8959 is a bi-directional specialty packaging tape reinforced with continuous glass yarns in both the longitudinal and transverse direction along with a biaxially oriented polypropylene backing. The polypropylene backing provides good abrasion, moisture and scuff resistance. The adhesive is specifically formulated to provide good adhesion to a wide variety of surfaces including metallic, plastic, and fiberboard.

Product Features

- High cross-direction tensile strength.
- Allows printing and illustrations to be seen through the tape.
- Excellent shear and initial adhesion.
- Excellent aging.
- Protection of filaments and adhesive to provide longer package life.
- Performs better than paper backings when exposed to outdoor and humid environments.
- Resists center seams slitting in both machine and cross direction, increasing the performance of the tape.
- Excellent holding power under wide range of application conditions with minimum amount of tape.
- Hold with minimum rubdown, doesn't require water to activate.
- Boxes remain closed for long periods of time.

Technical Information Note

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

Typical Physical Properties

Attribute Name	Test Method	Value
Adhesive Type		Pressure sensitive synthetic rubber-resin
Backing		Biaxial Oriented Polypropylene(BOPP)
Backing Color		Clear
Fiber Reinforcement		Bidirectional Glass Yarn
Total Tape Thickness	ASTM D3652	0.14 mm (5.7 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Dwell Time	Temperature	Substrate	Value
180° Peel Adhesion	ASTM D3330	72 h	22 °C (72 °F)	Stainless Steel	109 N/100mm (100 oz/in) ¹
Elongation at Break	ASTM D3759				6 %
Tensile Strength	ASTM D3759				260 N/cm (2600 N/100mm) (150 lb/in)

¹ 12 in/min (300 mm/min)

Handling/Application Information

Application Techniques

An extensive line of application equipment is available including portable hand-held dispensers and stationary

definite-length dispensers. Application of Scotch® Filament Tape 8959 is most easily accomplished at room temperature. At colder temperatures, approaching 32°F (0°C), the adhesive becomes firm. Once applied, Scotch® Tape 8959 performs well throughout the normal temperature ranges typically encountered by packaged products in shipping and storage environments.

Storage and Shelf Life

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.

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

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501.

Information

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ISO Statement

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

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/packaging. Address correspondence to: 3M Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55106. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

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