



TBP Converting, Inc.
3M 8959 PDS

3M™ Scotch® Bi-Directional Filament Tape 8959

Last Revision Date: March, 2003



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

Property	Values	Additional Information
Backing	Biaxial Oriented Polypropylene(BOPP)	
Adhesive Type	Pressure sensitive synthetic rubber-resin	
Backing Color	Clear	
Total Tape Thickness	5.7 mil (0.14 mm)	View
Test Method: ASTM D3652		
Total Tape Thickness	0.14 mm	View
Test Method: ASTM D3652		

Fiber Reinforcement

Bidirectional Glass Yarn

Typical Performance Characteristics

Property	Values	Additional Information
Tensile Strength	260 N/cm (2600 N/100mm)	View 
Test Method: ASTM D3759		
Tensile Strength	2600 N/100mm	View 
Test Method: ASTM D3759		
180° Peel Adhesion	11 N/cm (100 oz/in)	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	100 oz/in	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	109 N/100mm	View 
Test Method: ASTM D3330		
Substrate: Stainless Steel		
Tensile Strength	150 lb/in	View 
Test Method: ASTM D3759		
Elongation at Break	6 %	View 
Test Method: ASTM D3759		

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

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.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~-/Scotch-Bi-Directional-Filament-Tape-8959/?N=5002385+3293242300&rt=rud
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=8959

ISO Statement

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

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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