

March, 2019

3M™ Scotch® Filament Tape 8981

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 polypropylene 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.

Product Features

- 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.

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		Method
Backing Color	Transparent		
Total Tape Thickness	0.17 mm	6.6 mil	ASTM D3652
Backing	Polypropylene film		
Adhesive	Pressure sensitive synthetic rubber-resin		
Reinforcement	Glass yarn		

Typical Performance Characteristics

180° Peel Adhesion		
7.7 N/cm	70 oz/in	77 N/100mm

Property: 180° Peel Adhesion
Method: ASTM D3330
Dwell/Cure Time: 72
Dwell Time Units: hr
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil
notes: 12 in/min (300 mm/min)

Tensile Strength		
665.5 N/cm	6655 N/100mm	380 lb/in

Property: Tensile Strength
Method: ASTM D3759

Elongation at Break: 4 %

Methods
ASTM D3759

Handling/Application Information

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 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.

Trademarks

Scotch is a registered trademark of 3M.
3M, Scotchpro and 3M-Matic are trademarks of 3M.

References

Property	Values
3m.com Product Page	http://www.3m.com/3M/en_US/company-us/all-3m-products/~-/Scotch-Filament-Tape-8981?N=5002385+3293242191&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=8981

ISO Statement

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

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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