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## 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.

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## 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		Backing	Notes	Substrate
7.7 N/cm	70 oz/in	2 mil Aluminum Foil	12 in/min (300 mm/min) 72 hr dwell on Stainless Steel	
77 N/100mm				Stainless Steel

Property: 180° Peel Adhesion  
Method: ASTM D3330

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	<a href="http://www.3m.com/3M/en_US/company-us/all-3m-products/~/Scotch-Filament-Tape-8981?N=5002385+3293242191&amp;rt=rud">http://www.3m.com/3M/en_US/company-us/all-3m-products/~/Scotch-Filament-Tape-8981?N=5002385+3293242191&amp;rt=rud</a>
Safety Data Sheet (SDS)	<a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=8981">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=8981</a>

## ISO Statement

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

## Technical Information

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