

Technical Data Sheet

3M™ Scotch® Filament Tape 898

Product Description

Scotch® Filament Tape 898 is a high-performance transparent packaging tape reinforced along its length with continuous glass-yarn filaments, which give the tape very high tensile strength. The transparent polypropylene backing provides excellent abrasion, moisture and scuff resistance. The adhesive is an aggressive packaging adhesive specifically formulated to provide balanced performance having both high adhesion and long term holding power.


Product Features


- Meets ASTM D5330, Type II (replaces PPP-T-97E and CID A-A-1686A).
- Abrasion and moisture resistant.
- Good handling.
- High tensile strength.
- Allows printing and illustrations to be seen through the tape.
- High shear and great initial adhesion.
- Excellent aging.
- Good protection of filaments and adhesive to provide longer package life.
- Assures maximum package performance for limited outdoor use.
- Saves time through ease of dispensing and handling when used with a 3M dispenser.
- Provides advertising and warning capability when printed.
- Low unit costs by using less tape on applications where high tensile strength is one of the main requirements.
- Good holding, with minimum amount of tape, under a wide range of application conditions.
- 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	Additional Information
Backing	Biaxial Oriented Polypropylene(BOPP)	
Adhesive Type	Pressure sensitive synthetic rubber resin	
Backing Color	Clear	
Total Tape Thickness (mil)	6.6 mil	View 
Test Method: ASTM D3652		

Total Tape Thickness (mm)	0.17 mm	View 
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Test Method: ASTM D3652


Fiber Reinforcement	Glass Yarn
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Typical Performance Characteristics

Property	Values	Additional Information
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Tensile Strength	665 N/cm	View 
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Test Method: ASTM D3759


Tensile Strength (N/100mm)	6650 N/100mm	View 
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Test Method: ASTM D3759

180° Peel Adhesion	7.7 N/cm	View 
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Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	70 oz/in	View 
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Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	77 N/100mm	View 
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Test Method: ASTM D3330

Substrate: Stainless Steel

Tensile Strength (lb/in)	380 lb/in	View 
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Test Method: ASTM D3759

Elongation at Break (%)	5 %	View 
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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.

Bottom Matter

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Trademarks

Scotch is a registered trademark of 3M.
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Handling/Application Information

Application Techniques

An extensive line of application equipment including hand-held manual dispensers and the automatic 3M-Matic™ L-Clip Applicator S867 are available. Application of Scotch® Filament Tape 898 is most easily accomplished at room temperature.

At colder temperatures, approaching 32°F (0°C), the adhesive becomes firm. Once applied, Scotch® Filament Tape 898 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/p/d/b40067693/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=898

ISO Statement

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

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