



Technical Data Sheet

3M™ Scotch® Filament Tape 880



[Product Details](#)



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Product Description

Scotch® Filament Tape 880 is a high performance tape reinforced with continuous, polyester yarn filaments that give the tape high tensile strength, high impact resistance and high cut resistance. The polypropylene film backing provides excellent abrasion and moisture resistance. The aggressive packaging grade adhesive is specifically formulated to provide an excellent balance of high initial adhesion and long term holding power to fiberboard, “non-oily” metals, printed and painted surfaces.

Product Features

- Good handling.
- Printable (clear only).
- Cut and impact resistant.
- High shear adhesion.
- Excellent aging.
- 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.
- The polyester filaments resist cutting when tabbing the end lap of metal coils.
- The polyester filaments absorb the shock of rough, high impact handling to keep package secure during shipping.
- High tensile strength allows the use of less tape in many applications and lowers the cost per application.
- Translucency of the clear version allows good clarity of artwork and important messages, even when covered by the tape.
- Adhesive provides 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

Attribute Name	Test Method	Value
Adhesive Type		Pressure sensitive synthetic rubber resin
Backing		Biaxial Oriented Polypropylene(BOPP)
Backing Color		Transparent
Fiber Reinforcement		Polyester Yarn
Total Tape Thickness	ASTM D3652	0.196 mm (7.7 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	88 N/100mm (80 oz/in) ¹
Elongation at Break	ASTM D3759				19 %
Tensile Strength	ASTM D3759				4725 N/100mm (472.5 N/cm) (270 lb/in)

¹ 12 in/min (300 mm/min)

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.

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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.

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