



Technical Data Sheet

3M™ Scotch® Filament Tape 880



[Product Details](#)



[Regulatory Info/SDS](#)

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 under normal conditions of 4° to 27°C (40° to 80°F) and 40 to 50% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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