



Technical Data Sheet

3M™ Scotch® Filament Tape 893



[Product Details](#)



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Product Description

Scotch® Filament Tape 893 is a general-purpose packaging tape reinforced along its length with continuous glass-yarn filaments, which give the tape high tensile strength. The transparent polypropylene backing provides excellent abrasion, moisture and scuff resistance. The adhesive is an aggressive rubber adhesive specifically formulated to provide balanced performance having both high adhesion and long term holding power.

Product Features

- Abrasion and moisture resistant.
- High tensile strength with low stretch.
- Conformable to a wide range of shapes.
- Good visibility 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.
- Low unit costs by using less tape on applications where high tensile strength is one of the main requirements.
- Adhesive provides 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

Attribute Name	Test Method	Value
Adhesive Type		Pressure-sensitive rubber resin
Backing		Biaxial Oriented Polypropylene(BOPP)
Backing Color		Clear
Fiber Reinforcement		Glass Yarn
Total Tape Thickness	ASTM D3652	0.135 mm (5.3 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	55 N/100mm (50 oz/in) ¹
Elongation at Break	ASTM D3759				4 %
Tensile Strength	ASTM D3759				525.4 N/cm (5254 N/100mm) (300 lb/in)

¹ 12 in/min (300 mm/min)

Handling/Application Information

Application Techniques

An extensive line of application equipment including hand-held manual dispensers and an automatic L-clip applicator are available. Application of Scotch® Filament Tape 893 is most easily accomplished at room temperature. At colder temperatures, approaching 32°F (0°C), the adhesive becomes firmer. Once applied, Scotch® Tape 893 performs well throughout the normal temperature ranges typically encountered by packaged products in shipping and storage environments.

Industry Specifications

FDA Statement

This product might be suitable for use in indirect food contact applications. Please see the applicable Regulatory Data Sheet for more information relating to FDA compliance.

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.

Information

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ISO Statement

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

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