



Technical Data Sheet

3M™ Scotch® Filament Tape 8919MSR



[Product Details](#)



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Product Description

Scotch® Filament Tape 8919MSR is a high-performance transparent filament tape reinforced along its length with continuous fiberglass-yarn filaments, which gives the tape a very high tensile strength. The tape is designed to hold a variety of metal appliance parts together during manufacture and shipping. The heavy clear polyester film backing provides greater stiffness and excellent abrasion, moisture, and scuff resistance. The pressure sensitive modified synthetic rubber resin adhesive is specifically formulated to provide high adhesion to oily metal surfaces, clean removal, and stain resistance on a wide variety of surfaces.

Product Features

- Balanced adhesive.
 - Good oily metal adhesion.
 - Glass filament reinforcement.
 - Less flexible tape.
 - Abrasion- and moisture-resistant.
 - Printable by the Print-Seal process.
 - High shear strength. Good initial adhesion. Generally stain resistant.
 - Minimum odor.
 - Stain resistant to most synthetic enamel and lacquer finishes.*
 - Nearly complete contact with application surface.
 - High tensile strength and impact resistance coupled with low stretch under stress.
 - Easy to dispense and handle when used with 3M dispensers.
 - Excellent protection of filaments and adhesive to allow use of less tape.
 - Provides advertising and warning capability when printed.
 - Good holding under stress with a minimum amount of tape and application effort, yet allows easy removal without excessive adhesive residue, or stayd Allows tape to be used on or in appliances during storage and shipping.
 - Doors and other movable parts are held securely in place to guard against damage.
- *Tests should be conducted when staining is a factor.

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 modified synthetic rubber resin
Backing		Polyester(PET)
Backing Color		Transparent
Fiber Reinforcement		Glass Yarn
Total Tape Thickness	ASTM D3652	0.18 mm (7 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Dwell Time	Temperature	Substrate	Value
180° Peel Adhesion	ASTM D3330	72 h	23 °C (73 °F)	Stainless Steel	108 N/100mm (99 oz/in) ¹
Elongation at Break	ASTM D3759				5 %

Attribute Name	Test Method	Dwell Time	Temperature	Substrate	Value
Tensile Strength	ASTM D3759				6655 N/100mm (665 N/cm) (380 lb/in)

¹ 304 mm/min (12 in/min)

Handling/Application Information

Application Techniques

An extensive line of application equipment including hand-held manual dispensers, stationary definite-length dispensers, and an automatic L-Clip applicator is available. Application of Scotch® Filament Tape 8919MSR is most easily accomplished at room temperature. At lower temperatures, approaching 32°F (0°C), the adhesive becomes firm. Once applied, Scotch® Tape 8919MSR performs well throughout the normal temperature ranges typically encountered by packaged products in shipping and storage environments.

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 18 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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