

Scotch® Filament Tape 890MSR



Technical Data Sheet

May, 2013

Product Description

Scotch® Filament Tape 890MSR 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 clear polyester backing provides excellent abrasion, moisture and scuff resistance. The adhesive is a modified synthetic rubber resin adhesive specifically formulated to provide very good oily metal adhesion performance. The adhesive also provides a balanced performance having high adhesion and long term holding power for a variety of metal working applications.

Product Construction

Backing	Adhesive	Reinforcement	Backing Color
Polyester film	Pressure sensitive modified synthetic rubber resin	Glass yarn	Clear or Black

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only, and should not be used for specification purposes.

		ASTM Test Method
Adhesion to Steel:	80 oz./in. width (88 N/100 mm width)	D-3330
Tensile Strength:	600 lbs./in. width (10,500 N/100 mm width)	D-3759
Elongation at Break:	3%	D-3759
Total Thickness:	8.0 mil (0.20 mm)	D-3652

Features

- 890MSR (Clear) meets ASTM D5330, Type III.
- 890MSR (Black) meets ASTM D5330, Type IV.
- Abrasion and moisture resistant.
- Good oily metal adhesion.
- Printable by the print seal process.
- Very high tensile strength.
- High shear strength.
- Good initial adhesion.
- Excellent aging before and after application.
- 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 versus glue and strapping.
- Provides advertising and warning capability when printed.
- Low unit cost on applications where high tensile strength is main requirement by using less tape.
- Good holding under a wide range of application conditions with minimum amount of tape.
- Boxes remain securely closed through normal warehouse time cycles.

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890MSR

Available Sizes

Standard Widths:	1.9 in. (48 mm), [other custom widths available]
Core Size (ID):	3 in. (76.2 mm)
Lengths:	60 yds. (55 m), [other custom lengths available]

Application Techniques

An extensive line of application equipment including hand-held dispensers and an automatic L-Clip applicator is available. Application is most easily accomplished at room temperature. At lower temperatures, approaching 32°F (0°C), the adhesive becomes firm. Once applied, Scotch® Filament Tape 890MSR performs well throughout the normal temperature ranges encountered by packaged products in shipping and storage environments.

Storage Conditions

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.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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ISO 9001

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