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3M™ Scotch® Filament Tape 890MSR

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 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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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

Property	Values		Method
Backing Color	Clear or Black		
Total Tape Thickness	0.2 mm	8 mil	ASTM D3652
Backing	Polyester film		
Adhesive	Pressure sensitive modified synthetic rubber resin		
Reinforcement	Glass yarn		

Typical Performance Characteristics

Peel Adhesion		
8.8 N/cm	88 N/100mm	80 oz/in

Property: Peel Adhesion
Method: ASTM D3330
Substrate: Stainless Steel

Tensile Strength		
1051 N/cm	10,500 N/100mm	600 lb/in

Property: Tensile Strength
Method: ASTM D3759

Elongation at Break: 3 %

Methods
ASTM D3759

Handling/Application Information

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 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.

Trademarks

Scotch is a registered trademark of 3M.

References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=890MSR

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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