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3M™ Scotch® Filament Tape 893

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.
- 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.
- Provides advertising, warning, and labeling capability when printed.
- 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

Property	Values		Method
Backing Color	Clear		
Total Tape Thickness	0.135 mm	5.3 mil	ASTM D3652
Backing	Polypropylene		
Adhesive	Pressure-sensitive rubber resin		
Reinforcement	Glass yarn		

Typical Performance Characteristics

Peel Adhesion		
5.5 N/cm	55 N/100mm	50 oz/in

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

Tensile Strength		
525.4 N/cm	5,254 N/100mm	300 lb/in

Property: Tensile Strength
Method: ASTM D3759

Elongation at Break: 4 %

Methods

ASTM D3759

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.

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. To obtain best performance, use this product within 24 months from date of manufacture.

Trademarks

Scotch is a registered trademark of 3M.
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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=893

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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