

Scotch® Filament Tape 893



Technical Data

June, 2009

Product Description

Scotch® Filament Tape 893 is a general-purpose packaging tape reinforced with continuous glass-yarn filaments that give the tape high tensile strength and low stretch. The clear 3M™ Scotchpro™ backing provides excellent abrasion and moisture resistance. The aggressive packaging-grade adhesive is specifically formulated to provide an excellent balance of high initial adhesion and long-term holding power to most fiberboard surfaces. When used in bundling, reinforcing, or coil tabbing applications, where high temperatures and/or oily surfaces are involved, tests should be conducted per the individual application before extensive use to determine the tape's suitability.

| Construction | Backing | Adhesive | Reinforcement | Backing Color |
|--------------|---------------------|---------------------------------|---------------|---------------|
| | 3M™ Scotchpro™ film | Pressure-sensitive rubber resin | Glass yarn | Clear |

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: | 55 oz./in. width (60 N/100 mm width) | D-3330 |
| Tensile Strength: | 300 lbs./in. width (5250 N/100 mm width) | D-3759 |
| Elongation at Break: | 4.5% | D-3759 |
| Total Thickness: | 6.0 mil (0.15 mm) | D-3652 |

Features

- Good handling.
- Printable.
- High tensile strength combined with low stretch.
- Allows printing and illustrations to be seen through the tape.
- High shear and good initial adhesion.
- Good long-term holding power.
- Tough film backing protects the filaments and adhesive to provide longer functional tape performance.
- Good handling characteristics saves time through ease of dispensing and tape application.
- When printed, the tape provides advertising, warning, and labeling capability.
- High tensile strength allows use of less tape in many applications and lowers cost per application.
- Adhesive provides good holding under a wide range of application conditions with minimum amount of tape.
- Holds instantly with minimum rubdown.

Scotch® Filament Tape

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| Available Sizes | Available Widths | Available Lengths |
|-----------------|--|-------------------|
| | Standard Widths: .35 in. (9 mm), .47 in. (12 mm), .71 in. (18 mm), .94 in. (24 mm), 1.4 in. (36 mm), 1.9 in. (48 mm) | 60 yds. (55 m) |
| | .47 in. (12 mm) | 360 yds. (330 m) |
| Core Size (ID): | 3 in. (76.2 mm) | |

Application Techniques An extensive line of application equipment including hand-held manual dispensers and an automatic L-clip applicator, is 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 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.

Shelf Life To obtain best performance, use this product within 18 months from date of manufacture.

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.

Product Use Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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