

Scotch® Filament Tape 894



Technical Data

June, 2009

Product Description

Scotch® Filament Tape 894 is a general-purpose packaging tape reinforced with continuous glass-yarn filaments that give the tape high tensile strength and low stretch. The 3M™ Scotchpro™ Film 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 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 | 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 | | |
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| Adhesion to Steel: | 50 oz./in. width (55 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

- Protects adhesive from sunlight and ultraviolet rays.
- Good handling.
- High tensile strength combined with low stretch.
- Good initial and high shear adhesion.
- Black film backing makes outdoor storage possible.
- 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.
- 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 | Standard Widths: | .71 in. (18 mm) |
| | Core Size (ID): | 3 in. (76.2 mm) |
| | Lengths: | 60 yds. (55 m) |

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| Application Techniques | An extensive line of application equipment is available including hand-held manual dispensers and an automatic L-clip applicator. Application of Scotch® Filament Tape 894 is most easily accomplished at room temperature because at colder temperatures, approaching 32°F (0°C), the adhesive becomes firmer. Once applied, Scotch® Tape 894 performs well throughout the normal temperature ranges typically encountered by packaged products in shipping and storage environments. |
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| 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. |
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| Shelf Life | To obtain best performance, use this product within 18 months from date of manufacture. |
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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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