

# Scotch® Filament Tape 8981



## Technical Data

June, 2009

### Product Description

Scotch® Filament Tape 8981 is a high-performance packaging tape reinforced with continuous glass-yarn filaments that give the tape very 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 initial adhesion and long-term holding power to most fiberboard surfaces, including recycled and printed fiberboard surfaces.

### Construction

| Backing             | Adhesive                                  | Reinforcement | Backing Color |
|---------------------|---|---------------|---------------|
| 3M™ Scotchpro™ film | Pressure sensitive synthetic 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:   | 70 oz./in. width (77 N/100 mm width)     | D-3330 |
| Tensile Strength:    | 380 lbs./in. width (6655 N/100 mm width) | D-3759 |
| Elongation at Break: | 3%                                       | D-3759 |
| Total Thickness:     | 6.6 mil (0.168 mm)                       | D-3652 |

### Features

- Meets ASTM D5330, Type II, which has replaced PPP-T-97E and CID A-A-1686A.
- 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.
- Very 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 the use of less tape in many applications and lowers the cost per application.
- Good clarity of artwork and important messages even when covered by the tape.
- Adhesive provides very good holding under wide range of application conditions with minimum amount of tape.
- Holds instantly with minimum rubdown.
- Boxes remain securely closed through normal warehouse time cycles.

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8981

| Available Sizes | Available Widths   | Available Lengths |
|-----------------|--|-------------------|
|                 | Standard Widths: .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), .71 in. (18 mm)   | 361 yds. (330 m)  |
|                 | Core Size (ID): 3 in. (76.2 mm)  |                   |

|                               |   |
|-------------------------------|---|
| <b>Application Techniques</b> | An extensive line of application equipment including hand-held manual dispensers and the 3M-Matic™ Semi-Automatic L-Clip Applicator S857 is available. Application of Scotch® Filament Tape 8981 is most easily accomplished at room temperature because at colder temperatures, approaching 32°F (0°C), the adhesive becomes firmer. Once applied, Scotch® Tape 8981 performs well throughout the normal temperature ranges typically encountered by packaged products in shipping and storage environments. |
|-------------------------------|---|

|                           |   |
|---------------------------|---|
| <b>Storage Conditions</b> | 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. |
|---------------------------|---|

|                   |   |
|-------------------|---|
| <b>Shelf Life</b> | To obtain best performance, use this product within 18 months from date of manufacture. |
|-------------------|---|

|                              |  |
|------------------------------|--|
| <b>Technical Information</b> | 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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|--------------------|--|
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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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10% post-consumer

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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