



PTFE Skived Film Tape

5480 • 5481

Technical Data

Product Description Skived PTFE (polytetrafluorethylene) film backing with a silicone adhesive.

| Product Construction | Backing | Adhesive | Color | Standard Roll Length |
|----------------------|-------------|----------|-------|----------------------|
| | Skived PTFE | Silicone | Gray | 36 yds. (32.9 m) |

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

Tape 5480

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| Adhesion to Steel: | 20 oz./in. width (22 N/100 mm) | D-3330 |
| Tensile Strength: | 27 lbs./in. width (473 N/100 mm) | D-3759 |
| Elongation at Break: | 140% | D-3759 |
| Backing Thickness: | 2.0 mils (0.05 mm) | D-3652 |
| Total Tape Thickness: | 3.7 mils (0.09 mm) | D-3652 |
| Temperature Use Range: | -65° to 400°F (-54° to 204°C) | |

Tape 5481

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| Adhesion to Steel: | 32 oz./in. width (35 N/100 mm) | D-3330 |
| Tensile Strength: | 49 lbs./in. width (858 N/100 mm) | D-3759 |
| Elongation at Break: | 335% | D-3759 |
| Backing Thickness: | 5.0 mils (0.13 mm) | D-3652 |
| Total Tape Thickness: | 6.8 mils (0.17 mm) | D-3652 |
| Temperature Use Range: | -65° to 400°F (-54° to 204°C) | |

General Information

- Skived film tapes demonstrate good conformability when wrapping rollers.
- Provide excellent chemical resistance except to organic solvents. **Note:** The silicone adhesive will be attacked by commercial organic solvents and 5480 and 5481 tapes are not recommended for applications requiring organic resistance.
- To help prevent wrinkling or bubbling of the backing on PTFE film tapes when they are subjected to temperatures above 250°F (121°C), pre-heat the surface to at least 150°F (66°C) (preferred 180°F, 82°C) to obtain best results.

CAUTION: When PTFE film tape is exposed to temperatures above 400°F (204°C), small quantities of hazardous vapors may be released. **INHALATION OF THESE VAPORS MAY BE HARMFUL OR MAY CAUSE RESPIRATORY TRACT IRRITATION.** Do not heat or expose PTFE film tape to temperatures above 400°F (204°C).

Shelf Life

To obtain best performance, use this product within 12 months from date of manufacture and store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

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| Application Ideas | <ul style="list-style-type: none">• Wrapping rubber laminating rollers on hot polyethylene extruders to create a release surface to help minimize clean-up.• Easy-release surface provided by wrapping rollers, plates, belts, etc. where build-up of sticky materials and inks can occur.• Chemical resistant surface for sealing and masking. |
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| Features | Features | Advantages | Benefits |
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| | <ul style="list-style-type: none">• Skived PTFE film | <ul style="list-style-type: none">• Low coefficient of friction• Easy-release• Conformable | <ul style="list-style-type: none">• Helps improve movement of materials• Helps minimize clean-up of viscous substances• Stays put – helps minimize rework |
| | <ul style="list-style-type: none">• Silicone adhesive | <ul style="list-style-type: none">• Resistant to most chemicals, solvents, salts• High temperature performance• Long aging | <ul style="list-style-type: none">• Helps reduce clean-up• Helps increase productivity• Helps minimize rework |

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| Technical Information and Data | The technical information and data, recommendations, and other statements provided in this brochure are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed. |
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| Product Use | Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be used with the 3M product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application. |
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This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



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