



PTFE Skived Film Tape

5480 • 5481

Technical Data

June, 2009

Product Description 3M™ PTFE Skived Film Tape 5480 and 5481 has a film backing with a silicone adhesive.

| Product Construction | Backing | Adhesive | Color | Standard Roll Length |
|----------------------|---------------------------------------|----------|-------|----------------------|
| | Skived PTFE (polytetrafluoroethylene) | 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 |
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| 3M tape 5480 | | |
| 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) | |
| 3M tape 5481 | | |
| 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) | |

Features

- Skived film tapes demonstrate good conformability when wrapping rollers.
- Provides excellent chemical resistance except to organic solvents. **Note:** The silicone adhesive will be attacked by commercial organic solvents and so 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).

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