

# PTFE Skived Film Tape

5480 • 5481

Technical Data

April, 1996

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

Construction	Backing	Adhesive	Color	Standard Roll Length
	Skived PTFE	Silicone	Gray	36 yds. (33 m)

**Typical Physical Properties and Performance Characteristics** **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**

Adhesion to Steel:	20 oz./in width (22 N/100 mm)	D-3330
Tensile Strength at Break:	27 lbs./in. width (473 N/100 mm)	D-3759
Elongation at Break:	140%	D-3759
Backing Thickness:	2 mils (.05 mm)	D-3652
Total Tape Thickness:	3.8 mils (.097 mm)	D-3652
Temperature Use Range:	-65°F to 400°F (-54°C to 204°C)	

**Tape 5481**

Adhesion to Steel:	32 oz./in width (35 N/100 mm)	D-3330
Tensile Strength at Break:	49 lbs./in. width (858 N/100 mm)	D-3759
Elongation at Break:	335%	D-3759
Backing Thickness:	5.3 mils (.134 mm)	D-3652
Total Tape Thickness:	6.8 mils (.172 mm)	D-3652
Temperature Use Range:	-65°F to 400°F (-54°C to 204°C)	

**General Information**

- Tape 5480 and Tape 5481 are skived film tapes that show good conformability when wrapping rollers.
- Chemical resistance of Tape 5480 and Tape 5481 is excellent except to organic solvents. **Note:** The silicone adhesive will be attacked by commercial organic solvents and this tape is not recommended for applications requiring organic resistance.
- Store in a clean, dry area at 60-80°F (15-21°C) and 40-50% relative humidity no longer than 12 months from date of receipt.
- 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 750°F (400°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 750°F (400°C).

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## Application Ideas

- 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.

Features	Advantages	Benefits
• Skived PTFE film	• Low coefficient of friction	• Helps improve movement of materials
	• Easy release	• Helps minimize clean-up of viscous substances
• Silicone adhesive	• Conformable	• Stays put – helps minimize rework
	• Resistant to most chemicals, solvents, salts	• Helps reduce clean-up
	• High temperature performance	• Helps increase productivity
	• Long aging	• Helps minimize rework

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## For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 612-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-2180.

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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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