



PTFE Skived Film Tape

5480 • 5481

Technical Data

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
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

- 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.

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 12 months from date of manufacture.

Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors 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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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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