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3M

General Purpose PTFE Skived Film Tape

5180 • 5181

Technical Data

August, 2010

Product Description 3M™ General Purpose PTFE Skived Film Tapes are film backing with a silicone adhesive.

Product Construction	Backing	Adhesive	Color	Standard Roll Length
	Skived PTFE (polytetrafluorethylene)	Silicone	Gray	36 yds. (33 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 5180

Adhesion to Steel:	25 oz./in. width (28 N/100 mm)	D-3330
Tensile Strength:	30 lbs./in. width (525 N/100 mm)	D-3759
Elongation at Break:	100%	D-3759
Backing Thickness:	2.0 mils (0.05 mm)	D-3652
Total Tape Thickness:	3.5 mils (0.09 mm)	D-3652
Temperature Use Range:	-65° to 500°F (-54° to 260°C)	

3M™ Tape 5181

Adhesion to Steel:	35 oz./in. width (39 N/100 mm)	D-3330
Tensile Strength:	75 lbs./in. width (1300 N/100 mm)	D-3759
Elongation at Break:	100%	D-3759
Backing Thickness:	5.0 mils (0.13 mm)	D-3652
Total Tape Thickness:	6.5 mils (0.17 mm)	D-3652
Temperature Use Range:	-65° to 500°F (-54° to 260°C)	

Features

- 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; therefore tapes are **NOT** recommended for applications requiring organic resistance.

CAUTION: When PTFE film tape is exposed to temperatures above 600°F (316°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 tapes to temperatures above 600°F (316°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 24 months from date of manufacture.

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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