3M

General Purpose PTFE Skived Film Tape

5180 • 5181

Product Description	3M TM 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			
			. (00 11/400)	

Features

• Demonstrate good conformability when wrapping rollers.

100%

Adhesion to Steel:

Tensile Strength:

Elongation at Break: Backing Thickness:

Total Tape Thickness:

Temperature Use Range:

Provide excellent chemical resistance except to organic solvents. Note: The
silicone adhesive will be attached by commercial organic solvents; therefore
tapes are NOT recommended for applications requiring organic resistance.

5.0 mils (0.13 mm)

6.5 mils (0.17 mm)

35 oz./in. width (39 N/100 mm)

-65° to 500°F (-54° to 260°C)

75 lbs./in. width (1300 N/100 mm)

D-3330

D-3759

D-3759

D-3652

D-3652

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 buildup 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.

Product Use

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ISO 9001:2000

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