PTFE Skived Film Tape

5480 • 5481

Technical Data **October, 2016**

Product Description

3M™ PTFE Skived Film Tape 5480 and 5481 tapes offer an extremely low coefficient of friction which, in combination with a pressure sensitive silicone adhesive, creates a smooth, non-stick surface over a variety of substrates to assist in the movement of web materials in many types of roll-wrap applications

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:	26 lbs./in. width (461 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 500°F (-54° to 260°C)	
3M tape 5481		
Adhesion to Steel:	32 oz./in. width (35 N/100 mm)	D-3330
Tensile Strength:	59 lbs./in. width (1039 N/100 mm)	D-3759
Elongation at Break:	290%	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 500°F (-54° to 260°C)	

Features

- Skived 3M™ PTFE Film Tapes are more conformable than typical extruded PTFE film tapes.
- 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.
- Silicone adhesive provides clean removal from a variety of surfaces.
- Non-stick PTFE film provides an exceptionally slick surface for easy clean-up.

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Application Ideas

- Easy-release surface provided by wrapping rollers, plates, belts, etc. where build-up of sticky materials and inks can occur.
- Shielding and protecting against chemicals.
- Mold release for composite or metal bonding.
- High temperature wire bundling and harnessing.
- High strength and abrasion resistance reduce friction between surfaces, minimizing squeak and noise.
- Wide temperature range for performance on heated machinery and equipment.

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 tape to temperatures above 600°F (316°C).

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.

3M

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