



# 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
<b>3M tape 5480</b>		
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)	
<b>3M tape 5481</b>		
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.

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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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