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# 3M

## General Purpose PTFE Skived Film Tape

### 5181

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

Product Construction	Backing	Adhesive	Color
	Skived PTFE (polytetrafluorethylene)	Silicone	Gray

#### 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 5181</b>		
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 400°F (-54° to 204°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.
- 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 tapes 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.

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**Storage**

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

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**Shelf Life**

To obtain best performance, use this product within 24 months from date of manufacture.