



Technical Data Sheet

3M™ PTFE Skived Film Tape 5481



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ PTFE Skived Film Tape 5481 offers 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 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.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Attribute Name	Test Method	Value
Color		Gray
Adhesive Type		Silicone
Backing		Skived PTFE (polytetrafluorethylene)
Backing Thickness	ASTM D3652	0.13 mm (5 mil)
Total Tape Thickness	ASTM D3652	0.17 mm (6.8 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	3.5 N/cm (32 oz/in) ¹
Elongation at Break	ASTM D3759		290 %
Tensile Strength	ASTM D3759		103.9 N/cm (944 oz/in)
Long Term Temperature Resistance			260 °C (500 °F) ²
Minimum Long Term Temperature Resistance			-54 °C (-65 °F) ²

¹ 12 in/min (300 mm/min)

² Long Term (day, weeks)

Handling/Application Information

Application Examples

- 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 and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton. To obtain best performance, use this product within 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Standard Roll Length	32.9 m (36 yd)

Information

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ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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