



Technical Data Sheet

3M™ PTFE Glass Cloth Tape 5151



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ PTFE Glass Cloth Tape 5151 is constructed using (PTFE) polytetrafluoroethylene impregnated glass cloth with silicone adhesive. This tape is used in many applications requiring high temperature performance and high abrasion resistance. 3M tape 5151 also comes in a premium grade, lined version 5151PL.

Product Features

- Very low moisture absorption allows the tape to perform in many humid environments.
- Provides greater tensile strength and resistance to tear and puncture than typical PTFE film backed tapes.
- Thick glass cloth backing for a long wear life and high impact and puncture resistance.
- Thick PTFE coating for an exceptionally smooth surface and provides non-stick, low friction surface.
- Easy release liner on versions with liner.
- Silicone adhesive offers high temperature performance and long aging.

CAUTION:When PTFE film tapes are exposed to temperatures about 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).

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		Light Brown
Adhesive Type		Silicone
Backing		Woven glass cloth impregnated with PTFE
Backing Thickness	ASTM D3652	0.08 mm (3 mil)
Total Tape Thickness	ASTM D3652	0.13 mm (5.3 mil)
Liner		No Liner

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	23 °C (73 °F)	3.6 N/cm (33 oz/in) ¹
Tensile Strength	ASTM D3759		192.6 N/cm (110 lb/in)
Long Term Temperature Resistance			260 °C (500 °F) ²
Minimum Long Term Temperature Resistance			-73 °C (-100 °F) ²

¹ 304 mm/min (12 in/min)

² Long Term (day, weeks)

Handling/Application Information

Application Examples

- Easy release surface on packaging and heat sealing machines, ironing and pressing equipment.
- Release surface on metal bonding tools.
- Lining conveying chutes, troughs and ducts.
- Covering rollers, drums, turnbars and formers on stitches, binders and other process machinery.

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For 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 product was manufactured under a 3M quality system registered to ISO 9001 standards.

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