



# Technical Data Sheet

## 3M™ PTFE Glass Cloth Tape 5153



[Product Details](#)



[Regulatory Info/SDS](#)

### Product Description

3M™ PTFE Glass Cloth Tape 5153 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 5153 also comes in a lined version 5153L.

### 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	0.15 mm (5.8 mil)
Total Tape Thickness	ASTM D3652	0.2 mm (8 mil)
Liner		No Liner

### Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	4.7 N/cm (43 oz/in) <sup>1</sup>
Tensile Strength	ASTM D3759		507.9 N/cm (4640 oz/in)
Long Term Temperature Resistance			260 °C (500 °F) <sup>2</sup>
Minimum Long Term Temperature Resistance			-73 °C (-100 °F) <sup>2</sup>

<sup>1</sup> 12 in/min (300 mm/min)

<sup>2</sup> 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 60° to 80°F (15° to 27°C) and 40 to 50% R.H. in the original carton. To obtain best performance, use this product within two years from date of manufacture.

## **Available Sizes**

<b>Attribute Name</b>	<b>Value</b>
Standard Roll Length	32.9 m (36 yd)

## **Information**

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## **ISO Statement**

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