



# Technical Data Sheet

## 3M™ PTFE Glass Cloth Tape 5151PL



[Product Details](#)



[Regulatory Info/SDS](#)

### Product Description

3M™ PTFE Glass Cloth Tape 5151PL 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 5151PL is the lined version of 5151.

### 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                |             | Dark Brown   |
| Adhesive Type        |             | Silicone   |
| Backing              |             | Woven glass cloth impregnated with PTFE, premium grade |
| Backing Thickness    | ASTM D3652  | 0.08 mm (3 mil)  |
| Total Tape Thickness | ASTM D3652  | 0.13 mm (5.3 mil)                                      |
| Liner                |             | Embossed UPVC  |
| Primary Liner Color  |             | Yellow, random dot pattern                             |

### Typical Performance Characteristics

| Attribute Name                           | Test Method | Temperature   | Value                            |
|--|-------------|---------------|----------------------------------|
| 180° Peel Adhesion                       | ASTM D3330  | 22 °C (72 °F) | 3.6 N/cm (33 oz/in) <sup>1</sup> |
| Tensile Strength                         | ASTM D3759  |               | 192.6 N/cm (110 lb/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 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**

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

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### **ISO Statement**

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

3M™ Industrial Adhesives and Tapes Division  
3M Center, St. Paul, MN 55144-1000  
[3M.com/iata](http://3M.com/iata)

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