



# **Technical Data Sheet**

3M™ PTFE Glass Cloth Tape 5153L

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### **Product Description**

3M™ PTFE Glass Cloth Tape 5153L 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 5153L is the linered version of 5153.

#### **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	
Docking		Woven glass cloth impregnated with	
Backing		PTFE	
Backing Thickness	ASTM D3652	0.15 mm (5.8 mil)	
Total Tape Thickness	ASTM D3652	0.2 mm (8 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)	4.7 N/cm (43 oz/in) <sup>1</sup>
Tensile Strength	ASTM D3759		507.9 N/cm (290 lb/in)
Long Term Temperature			260 °C (500 °F) <sup>2</sup>
Resistance		200 C (300 F) -	
Minimum Long Term		-73 °C (-100 °F) <sup>2</sup>	72 °C / 100 °E\ 2
Temperature Resistance			-/3 C (-100 F) <sup>2</sup>

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

<sup>&</sup>lt;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**

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

# **Information**

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### **ISO Statement**

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