# **PTFE Glass Cloth Tape** 5451

Technical Data				<b>April, 1996</b>	
<b>Product Description</b>	A woven glass cloth impregnated with PTFE (polytetrafluoroethylene) and silico adhesive which provides a high temperature release surface for protection and insulation.				
Construction	Backing	Adhesive	Color	Standard Roll Length	
	Glass cloth impregnated with PTFE	Silicone	Brown	36 yds. (33 m)	
Typical Physical Properties and Performance	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.  ASTM Test Method				
Characteristics	Adhesion to Steel:	28 oz./in width (30.6 N/100 mm)		D-3330	
	Tensile Strength at Break:	98 lbs./in. width (1723.1 N/100 mm)		D-3759	
	Backing Thickness:	2.6 mils (.066 mm)		D-3652	
	Total Tape Thickness:	5.3 mils (.134 mm)		D-3652	
	Temperature Use Range:	-100°F to 400°F (-7	73°C to 204°C)		
General Information	<ul> <li>Moisture absorption is close to zero, allowing tape 5451 to perform in many humid environments.</li> </ul>				
	<ul> <li>The reinforcement provided by the woven glass cloth fabric base adds tensile strength and resistance to tear and puncturing in comparison to typical PTFE-backed film tapes.</li> </ul>				
	<b>CAUTION:</b> When PTFE film tape is exposed to temperatures above 750°F (400°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 750°F (400°C).				

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#### **Application Ideas**

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

Features	Advantages	Benefits
Glass cloth backing	• Good heat transfer	Helps reduce heat consumption
	• Economical	• Helps reduce maintenance costs
	Provides impact and puncture resistance	Helps increase productivity
	• Resists tearing and adds tensile strength	• Long wear life
• PTFE coating	• Provides easy release surface	Helps reduce down-time for clean-up
Silicone adhesive	Resistant to most chemicals and corrosive actions of most solvents, salts and acids	Helps save replacement of parts and equipment
	<ul><li> High temperature</li><li> Long aging</li></ul>	Helps increase productivity

## For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 612-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-2180.

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ISO 9002

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