## **3M PTFE Glass Cloth Tape** 5451 • 5453

Product Description	Premium performance 3M <sup>™</sup> PTFE Glass Cloth Tape 5451 and 5453 has a brown woven glass cloth backing impregnated with PTFE (polytetrafluoroethylene). These tapes provide a slick surface on process machinery and offers an extremely low coefficient of friction which, in combination with a pressure sensitive silicone adhesive, creates a non-stick surface that performs at elevated temperatures.				
Product Construction	Backing	Adhesive	Color	Standard Roll Lengt	
	Woven glass cloth impregnated with PTFE (polytetrafluoroethylene)	Silicone	Brown	36 yds. (32.9 m)	
Typical Physical Properties	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.				
				ASTM Test Metho	
	3M tape 5451				
	Adhesion to Steel:	38 oz./in. width (41 N/100 mm)		D-333	
	Tensile Strength:	100 lbs./in. width (1760 N/100 mm)		,	
	Backing Thickness:	5.6 mils (0.14 mm)		D-365	
	Total Tape Thickness: Temperature Use Range:	3.2 mils (0.08 mm) -100° to 500°F (-73° to 260°C)		D-365	
	3M tape 5453	55 oz (in width (60 N/100 mm)		D 000	
	Adhesion to Steel:	55 oz./in. width (60 N/100 mm)		D-333	
	Tensile Strength:	175 lbs./in. width (3065 N/100 mm)		•	
	Backing Thickness:	6.0 mils (0.15 mm) 8.2 mils (0.21 mm)		D-365 D-365	
	Total Tape Thickness: Temperature Use Range:		F (-73° to 260°C)	D-303	
Features	<ul> <li>Very low moisture absorption allows the tape to perform in many humid environments.</li> <li>Premium glass cloth reinforced backing provides greater tensile strength and resistance to tears and punctures than typical PTFE film backed tapes.</li> <li>Excellent chemical resistance enables tape to withstand challenging applications.</li> </ul>				
	<b>CAUTION:</b> When PTFE film tape is exposed to temperatures above 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 tape to temperatures above 600°F (316°C).				

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Application Ideas	<ul> <li>Easy-release, low friction surface on heat sealing and packaging equipment.</li> <li>Mold release surface in composite bonding.</li> <li>Lining conveying chutes, troughs and ducts.</li> </ul>			
	<ul><li>Process machinery.</li><li>High temperature bundling.</li></ul>			
	Storage	Store under normal conditions of $60^{\circ}$ to $80^{\circ}$ F ( $16^{\circ}$ to $27^{\circ}$ C) and 40 to $60\%$ R.H. in the original carton.		
	Shelf Life	To obtain best performance, use this product within 24 months from date of manufacture.		
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	ISO 9001			
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Industrial Adhesives and Tapes Division

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