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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3M PTFE Glass Cloth Tape 5451 • 5453

Product Description	Premium performance 3M [™] 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-333	
	Adhesion to Steel:	175 lbs./in. width (3065 N/100 mm)			
	Tensile Strength:	6.0 mils (0.15 mm)		D-375 D-365	
	Backing Thickness:	8.2 mils (0.15 mm)		D-365	
	Total Tape Thickness: Temperature Use Range:	-100° to 500°F (-73° to 260°C)		D-303	
Features	• Very low moisture absorption allows the tape to perform in many humid environments.				
	 Premium glass cloth reinforced backing provides greater tensile strength and resistance to tears and punctures than typical PTFE film backed tapes. Excellent chemical resistance enables tape to withstand challenging applications. 				
	CAUTION: 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).				

3M[™] PTFE Glass Cloth Tape

5451 • 5453

Application Ideas	Easy-release, low friction surface on heat sealing and packaging equipment.Mold release surface in composite bonding.			
	• Lining conveying chutes, troughs and ducts.			
	• Covering rollers, drums, turnbars and formers on stitchers, binders and other			
	process machinery.High temperature bundling.			
	• Barrier for the separation of dissimilar parts.			
Storage	Store under normal conditions of 60° to 80° F (16° to 27° 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.			
Technical Information	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.			
Product Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.			
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	ISO 9001			
	This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.			

3M

Industrial Adhesives and Tapes Division

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