## **3M** Flame Retardant Double Coated Tape 9377

Technical Data		May, 2009		
Product Description	3M <sup>™</sup> Flame Retardant Double Coated Tape 9377 is a very high-tack adhesive system used for carpet installation on interior floors and stairs of an aircraft. This product has a specially formulated black acrylic based adhesive on one side that attaches to the carpet and a white rubber based adhesive that provides a permanent bond to the aircraft floorboard.			
Construction	Adhesive Type: Black side: White side:	Tackifed Acrylic, Film liner side Synthetic Rubber		
	Adhesive Carrier:	Polypropylene		
	Adhesive Thickness: (mils)	11		
	(microns)	279		
	Areal Density: (gm/Sq. M.)	305		
	Thickness Tolerance:	± 15%		
	Adhesive Color:	White for floorboard side Black for carpet side		
Typical Physical Properties		nation and data should be considered representativ t be used for specification purposes.		
	Operating Ranges: Short Term: (minutes/hours)	250°F (121°C)		
	Operating Ranges:	250°F (121°C) 180°F (82°C)		
	Operating Ranges: Short Term: (minutes/hours)			
	Operating Ranges: Short Term: (minutes/hours) Long Term: (weeks/months)	180°F (82°C)		
Available Sizes	Operating Ranges: Short Term: (minutes/hours) Long Term: (weeks/months) Relative Solvent Resistance:	180°F (82°C) Very Good		
Available Sizes	Operating Ranges: Short Term: (minutes/hours) Long Term: (weeks/months) Relative Solvent Resistance: U.V. Resistance:	180°F (82°C) Very Good Very Good		
Available Sizes	Operating Ranges: Short Term: (minutes/hours) Long Term: (weeks/months) Relative Solvent Resistance: U.V. Resistance: Core Size:	180°F (82°C) Very Good Very Good 3.0 in. (76.2 mm)		
Available Sizes	Operating Ranges: Short Term: (minutes/hours) Long Term: (weeks/months) Relative Solvent Resistance: U.V. Resistance: Core Size: Available Widths:	180°F (82°C) Very Good Very Good 3.0 in. (76.2 mm) 2 in. (Custom sizes also available)		

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Typical Peel Adhesions	<ul> <li>Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.</li> <li>Peel Adhesion (ASTM D3330 - Modified for 90°)</li> </ul>					
						Surface:
		Initial	27 (30)	86 (93)		
		72 Hr. Room Temp.	27 (30) 45 (50)	114 (127) 102 (114)		
		Ultimate (72 Hr., 158°F [70°F])				
	Typical Static Shear Performance	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.				
Application Techniques	Surface					
	Stainless Steel:	1000 gm, Room Temp.		66		
	500 gm, 158°F (70°C)		10			
	<ul> <li>Bond strength is dependent upon the amount of adhesive-to-surface contact develope Firm application pressure helps develop better adhesive contact and improve bond strength. 15 psi momentary pressure is typical.</li> <li>Ideal tape application temperature range is 70°F to 100°F (21°C to 37°C). Initial tape application to surface at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once applied, low</li> </ul>					
	temperature holding is generally satisfactory. Surfaces should be <b>clean and dry</b> prior to bonding. Recommend a final surface cleaning with a mixture of 50% isopropyl alcohol and water.*					
	*Note: When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.					
Application Ideas	• Formulated for applications requiring flame retardency and high bond strength to a wide variety of substrates.					
	• These attributes and choice of this product thickness, makes the product ideally suited to applications in aerospace, marine, electronic, automotive and building construction applications on both smooth and textured substrates.					

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Storage	Store under normal conditions of 70°F (21°C) and 50% relative humidity 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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Limitation of Liability	Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.			
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## Industrial Adhesives and Tapes Division Converter Markets

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