

May, 2009

3M™ Flame Retardant Double Coated Tape 9377

Product Description

3M™ 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.



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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

Color

White for floorboard side
Black for carpet side

Adhesive Type

Black side: Tackified Acrylic, Film liner side
White side: Synthetic Rubber

Property	Values	
Thickness Tolerance	± 15 %	
Adhesive Carrier	Polypropylene	
Adhesive Thickness	0.279 mm	11 mil
Areal Density	305 g/m ²	

Typical Performance Characteristics

Relative High Temperature Operating Ranges		Test Condition
121 °C	250 °F	Short Term (minutes, hours)
82 °C	180 °F	Long Term (days, weeks)

Property: Relative High Temperature Operating Ranges

90° Peel Adhesion		Attribute Modifier	Dwell/Cure Time	Dwell Time Units	Temp C	Temp F	Environmental Condition
3 N/cm	27 oz/in	Faceside	72	hr	22C	72F	52%RH
5 N/cm	45 oz/in	Faceside	72	hr	70C	158F	52%RH
12.7 N/cm	114 oz/in	Backside	72	hr	22C	72F	52%RH
11.4 N/cm	102 oz/in	Backside	72	hr	70C	158F	52%RH
3 N/cm	27 oz/in	Faceside	Initial		22C	72F	
9.3 N/cm	86 oz/in	Backside	Initial		22C	72F	

Property: 90° Peel Adhesion
Method: ASTM D3330
Substrate: Stainless Steel
Backing: 2 mil PET
notes: 12 in/min (300 mm/min)

Typical Performance Characteristics (continued)

Property	Values	Method	Test Condition	Notes
Static Shear	66 min	ASTM D3654	1000 g @ Room Temperature	1 in ² sample size
Static Shear	10 min	ASTM D3654	500 g @ 70°C (158°F)	1 in ² sample size
Solvent Resistance	Very Good			
UV Resistance	Very Good			

Available Sizes

Property	Values		Notes	Attribute Modifier
Note	Subject to Minimum Order Requirements			
Standard Roll Length	25 yd			
Available Width	50.8 mm	2 in		
Normal Slitting Tolerance	±0.8 mm	±1/32 in		
Precision Slitting Tolerance	±0.1 mm	±0.004 in	Precision slitting is available on select products with minimum order of full web increments.	
Core Size	76.2 mm	3 in		ID

Handling/Application Information

Application Ideas

- Formulated for applications requiring flame retardancy 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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Handling/Application Information (continued)

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength. 15 psi momentary pressure is typical.

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 temperature holding is generally satisfactory. Surfaces should be clean and dry 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.

Storage and Shelf Life

Store under normal conditions of 70°F (21°C) and 50% relative humidity in the original carton. To obtain best performance, use this product within 24 months from date of manufacture.

Trademarks

3M is a trademark of 3M Company.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/-/3M-Flame-Retardant-Double-Coated-Tape-9377?N=5002385+3293241367&rt=rud
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9377

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Information

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