

April, 2009

3M™ Double Coated Urethane Foam Tape 4008

Product Description

3M™ Double Coated Urethane Foam Tapes are conformable foams that offer high shear strength with a high temperature holding acrylic adhesive system for bonding to various types of surfaces for mounting, joining and holding.

Product Features

- The natural colored urethane foam tape products vary in color from white to light yellow. The color will change to light yellow upon exposure to sunlight (ultraviolet radiation). This color change is normal and does not affect tape performance.



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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

Property	Values		Notes
Color	Natural		
Thickness: Nominal	3.2 mm	125 mil	
Thickness Tolerance	2.79 to 3.81 mm	110 to 150 mil	
Adhesive Type	100		3M™ Adhesive 100 is a firm acrylic pressure sensitive adhesive system. It features high ultimate bond strength, very good high temperature and solvent resistance and very high shear holding power. Bond strength increases substantially with natural aging.
Adhesive Carrier	Polyurethane Foam		
Foam Density	240 kg/m ³	15 lb/ft ³	
Liner Thickness	0.08 mm	3 mil	
Liner Color	Green Plaid		

Typical Performance Characteristics

Property	Values		Notes
Normal Tensile	170 kPa	25 lb/in ²	("T" Block); 1 in ² (6.45 cm ²); Jaw Speed 2 in/min (50 mm/min)
Tensile Strength	1100 kPa	160 lb/in ²	
Elongation at Break	90 %		
Solvent Resistance	No apparent degradation when exposed to splash tests of most hydrocarbon solvents.		
UV Resistance	No apparent degradation when exposed to 7 days in U.V. chamber.		

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Typical Performance Characteristics (continued)

Property	Values		Notes
Cold Flex @ -20°F (-30°C)	No cracking when flexed around a 1/4 in (6.4 mm mandrel).		

Relative High Temperature Operating Ranges		Test Condition
193 °C	380 °F	Short Term (minutes, hours)
104 °C	220 °F	Long Term (days, weeks)

Property: Relative High Temperature Operating Ranges

Static Shear	Test Condition
1000 g	Room Temperature
500 g	49°C (120°F)
500 g	66°C (150°F)
250 g	93°C (200°F)

Property: Static Shear

Available Sizes

Property	Values	
Note	Subject to Minimum Order Requirements	
Standard Length	32.9 m	36 yd
Maximum Length	45.7 m	50 yd
Available Width	1168 mm	46 in
Normal Slitting Tolerance	±0.8 mm	±1/32 in

Electrical and Thermal Properties

Property	Values	
Dielectric Strength	200 to 300 V/mil	8 to 12 V/μm
Thermal Conductivity (k value)	0.062 W/m/K	0.036 (btu-ft)/(h-ft²-°F)

Handling/Application Information

Application Ideas

The urethane foam tapes are generally ideal for interior applications or for exterior applications where the tape will be protected from the environment. The urethane foam is open cell.

3M™ Double Coated Urethane Foam Tape 4008 – Bond acoustic panels to walls

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ISO Statement

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

Recognition/Certification

MSDS: 3M has not prepared MSDSs for these products which are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, these products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

Information

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