# **3M Double Coated Vinyl Foam Tapes** 4432 • 4416 • 4408

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### September, 1998

(Supersedes July, 1994)

Product Description	4432	1/32 in. (0.8 mm) Double-Coated Vinyl Foam Tape
	4416	1/16 in. (1.6 mm) Double-Coated Vinyl Foam Tape
	4408	1/8 in. (3.2 mm) Double-Coated Vinyl Foam Tape

Construction	Products	Tape 4432	Tape 4416	Tape 4408
	Adhesive Type:*		<b>430</b> (A-30)	
	Adhesive Carrier:	Close	d Cell Polyvinyl Chloride	Foam
	Thickness: Nominal	1/32 in. 0.031 in. (0.8 mm)	1/16 in. 0.0625 in. (1.6 mm)	1/8 in. 0.125 in. (3.2 mm)
	Tolerance	0.025-0.040 in. (0.64-102 mm)	0.045-0.080 in. (1.14-2.03 mm)	0.110-0.150 in. (2.29-3.81 mm)
	Tape Color:	Black or White	Black or White	Black Only
	Release Liner:		0.003 in. (0.08 mm) Green Plaid Paper	
	Approximate Density: Foam only Ib./ft. <sup>3</sup> (kg/m <sup>3</sup> )	35 (560)	20 (320)	20 (320)

\*430 (A-30) is a firm acrylic pressure sensitive adhesive which features both high initial adhesion and good high temperature holding power.

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Typical Physical No Properties and Performance Characteristics	ote: The following technical in or typical only and should	nformation and data should l d not be used for specification		
Products	Tape 4432	Tape 4416	Tape 4408	
Normal Tensile: (T-Block) 1 in. <sup>2</sup> (6.45 cm <sup>2</sup> ) Jaw Speed 2"/min. (50 mm/min.)	Adhe	60 psi (414 kPa) sive strength exceeds foam str	rength.	
Static Shear: (As measured by static shear weight held for 100 hr.) 1/2 sq. in overlap 72°F 120°F	- 1000 g 250 g	500 g 125 g	500 g 125 g	
Temperature Resistance: Short Term (Minutes, Hours)	200°F (93°C)	200°F (93°C)	200°F (93°C)	
Long Term (Days, Weeks)	150°F (66°C)	150°F (66°C)	150°F (66°C)	
Solvent Resistance:	No apparent degradation v solvents.	No apparent degradation when exposed to splash testing of most hydrocarbon solvents.		
UV Resistance:	No apparent degradation w	hen exposed for seven days in	U.V. chamber.	
Cold Flex at -20°F (-30°C):	Slight cracking occurs whe	Slight cracking occurs when flexed around a 1/4 in. (6.4 mm) mandrel.		
Thermal Conductivity:	0.03	36 BTU Ft./Ft. <sup>2</sup> Hr. °F (0.062W/r	m∙K)	
Dielectric Strength:	300 volts/mil (300 volts/0.0254 mm)			
Shelf Life:	18 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.			
Available Sizes				
Roll Length (Subject to minimum order requirements): Standard	72 yds. (65.8 m)	36 yds. (32.9 m)	36 yds. (32.9 m)	
Maximum	175 yds. (160 m)	100 yds. (91.4 m)	50 yds. (45.7 m)	
Roll Width: (Subject to minimum order requirements:				
Minimum	1/4 in., 0.250 in., (6.4 mm)	1/4 in., 0.250 in., (6.4 mm)	1/4 in., 0.250 in., (6.4 mm)	
Maximum Slitting Tolerance:	46 in. (1168 mm)	46 in. (1168 mm) ± 1/32 in. ± 0.031 in. ± (0.8 mm)	46 in. (1168 mm)	

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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.		
	• To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or heptane. <b>Note:</b> Be sure to follow manufacturer's precautions and directions for use when using solvents.		
	• Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.		
Application Ideas	• These products are designed for general purpose mounting and joining, and may offer one piece removal in some applications. Surfaces and conditions for removal should be tested by the user to determine fitness for the user's particular purpose. The high degree of conformability of these tapes make them ideal for joining many rough irregular surfaces, and the closed-cell foam can make good water and air seals in certain applications.		

## (Process Black plate)

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For Additional Information	To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550. Address correspondence to: 3M Bonding Systems Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-2180.
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