

May, 2008

## 3M™ Single-Coated Vinyl Foam Tape 4726

### Product Description

3M™ Single-Coated Foam Tapes will adhere to a variety of substrates, including latex-painted wood, lacquered wood, enameled steel, glass, aluminum, stainless steel, acrylic, ABS, and PVC (non-plasticized) as tape adhesion is typically satisfactory within 20 minutes and continues to build with additional time.

### Product Features

3M™ Vinyl Foam Tapes Series 4700 are a flexible, black, medium-density, closedcell foam with a pressure-sensitive acrylic adhesive on one side. The adhesive is protected by a 0.004 inch (0.1 mm) thick white, silicone treated paper liner which allows for die cutting without having to laminate another liner to the foam. 3M vinyl foam tape series 4500 and 4700 are durable, flexible closed cell vinyls which can help seal out dust, light and moisture when placed under 30% compression. These vinyl tapes offer excellent aging characteristics and will remain flexible when exposed to elevated temperatures and UV light. Application ideas include: dust and moisture seal for appliances, computers, copiers and other electronic and transportation equipment.



# 3M™ Single-Coated Vinyl Foam Tape 4726

## 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		Method	Notes
Color	Black			
Thickness	1.6 mm	62 mil		
Thickness Tolerance	30 %			
Adhesive	430*			
Density	230 kg/m <sup>3</sup>	20 lb/ft <sup>3</sup>	ASTM D3574	Foam with adhesive
Liner Thickness	0.10 mm	4 mil		
Liner Color	White			
Shore 00 Hardness	50		ASTM D2240	Foam with adhesive
Compression Deflection: 25% Compression	20.7 kPa	3 lb/in <sup>2</sup>	ASTM D3574	
Mold Resistance: Foam with adhesive	No growth after 28 days		ASTM G21	

### \*Note

\*3M™ Adhesive 430 is a medium soft adhesive system that offers good quick stick to many types of surfaces along with excellent aging and UV resistance.

## Typical Performance Characteristics

Property	Values		Method	Notes
Tensile Strength	895 kPa	130 lb/in <sup>2</sup>	ASTM D3574	Die "A"
Elongation	200 %		ASTM D3574	Die "A"
Low Temperature Resistance	Cold flex at -18 °C	Cold flex at 0 °F		No cracks. Tape slowly bent around a 1/4 in. diameter mandrel.
Compression Set	15 %		ASTM D1667	

**Typical Performance Characteristics (continued)**

High Temperature Resistance		Test Condition
66 °C	150 °F	Continuous
121 °C	250 °F	30 minutes maximum time

Property: High Temperature Resistance

**Available Sizes**

Property	Values	
Standard Length	32.9 m	36 yd
Roll Diameter	280 mm	11 in
Maximum Length	91.4 m	100 yd
Minimum Available Width	3 mm	0.125 in
Maximum Available Width	1168 mm	46 in
Normal Slitting Tolerance	± 0.8 mm	± 1/32 in

**Electrical and Thermal Properties**

Property	Values		Method
Dielectric Strength	80 V/mil		ASTM D149
Thermal Conductivity	0.043 W/m/K	3 (btu-in)/(h-ft <sup>2</sup> -°F)	ASTM C518
Surface Resistivity: Non-Adhesive Side	2 × 10 <sup>11</sup> Ω		ASTM D257
Surface Resistivity: Adhesive Side	4 × 10 <sup>11</sup> Ω		ASTM D257
Water Absorption: 30% Compression	10 % by Volume		ASTM D1056

**Typical Environmental Performance****Solvent and Fuel Resistance**

Solvent/Fuel	3M vinyl foam tape series 4700	
	Adhesive	Foam
Acetone	Softens	Swells
Ammonia Cleaner	No effect	No effect
Engine Oil	No effect	No effect
Gasoline	No effect	No effect
JP-4 (jet fuel)	No effect	No effect
MEK	Softens	Swells
Mineral Spirits	No effect	No effect
Soapy Water	No effect	No effect

\*Visual observations of tape bonded to steel panels and immersed totally in solvent/fuel for 24 hours.

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## Handling/Application Information

### Application Techniques

- Bond strength is dependent upon the amount of adhesive-to-surface contact. Firm application pressure develops better adhesive contact and helps improve bond strength.
- To obtain optimum adhesion, the bonding surface must be clean, dry, and well unified. Some typical surface cleaning solvents are isopropyl alcohol and heptane.\*
- \*Be sure to follow the solvent manufacturer's precautions and directions for use when handling 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.

### Storage and Shelf Life

Store in the original cartons at 60-80°F (15-27°C) and 50% relative humidity.  
Shelf life is 24 months from date of manufacture.

### Industry Specifications

UL 94HBF (File #E76581)  
FMVSS 302  
FAR 25.853 B-2  
FAR 25.853 B-3

### Trademarks

3M is a trademark of the 3M Company.

### References

Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/company-us/all-3m-products/-/3M-Vinyl-Foam-Tape-4726/?N=5002385+3293241329&amp;rt=rud">https://www.3m.com/3M/en_US/company-us/all-3m-products/-/3M-Vinyl-Foam-Tape-4726/?N=5002385+3293241329&amp;rt=rud</a>
Safety Data Sheet (SDS)	<a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=4726">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=4726</a>

### Family Group

	4714	4718	4726
Color	Black	Black	Black
Thickness (mm)	6.4	3.2	1.6
Adhesive	430*	430*	430*
Liner Thickness (mm)	0.1	0.1	0.1
Liner Color	White	White	White

### 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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