

# 3M™ Foam Tapes

Use these tapes to protect your products from the elements of destruction. A wide variety of backing/adhesive combinations meet demanding applications requiring gasketing, baffling, cushioning, and insulating.

## Key Customer Markets:

- *Electronics*
- *Appliances*
- *Aerospace*

- Vinyl foam tapes feature a closed cell design to provide durability, flexibility, weather resistance, and a seal against dust, light, and moisture.
- Urethane foam tapes have an open cell and include models with excellent cushioning characteristics and high absorbency to trap moisture, dust, and contaminants.
- Silicone foam tapes are flame retardant, U.V. resistant, and available with varying degrees of compression resistance for use in high temperature applications from aerospace to electronics.

## PRODUCT INFORMATION

Product/Color	Tape Structure/Adhesive	Approx. Thickness Inch (mm)	Density lb./cu. ft. (kg/cu m)	Tensile Strength psi (kPa)	Compression Deflection 25% psi (kPa)	Compression Set % Loss	Temperature Range °F (°C) (continuous)	Comments
ASTM Test Method:			D-3574	D-3574	D-3574	D-1667		
<b>SINGLE COATED FOAM TAPES</b>								
<b>Urethanes</b>								
4104/Natural White	Urethane/Acrylic	0.250 (6)	12 (192)	115 (795)	4 (27.6)	8	0 to 200°F (-18 to 93°C)	Open cell foams.
4108/Natural White	Urethane/Acrylic	0.125 (3)	16 (256)	130 (895)	6 (41.4)	8	0 to 200°F (-18 to 93°C)	Open cell foams.
4116/Natural White	Urethane/Acrylic	0.062 (1.5)	18 (288)	115 (795)	12 (82.8)	12	0 to 200°F (-18 to 93°C)	Open cell foams.
4314/Charcoal Gray	Urethane/Acrylic	0.250 (6)	2 (32)	25 (170)	0.3 (2.1)	5	-20 to 150°F (-29 to 66°C)	Open cell foams.
4317/Charcoal Gray	Urethane/Acrylic	0.375 (9.5)	2 (32)	25 (170)	0.3 (2.1)	5	-20 to 150°F (-29 to 66°C)	Open cell foams.
4318/Charcoal Gray	Urethane/Acrylic	0.125 (3)	2 (32)	25 (170)	0.3 (2.1)	5	-20 to 150°F (-29 to 66°C)	Open cell foams.
4014/Silver	Aluminum-Urethane/Acrylic	0.250 (6.35)	13 (208) <sup>†</sup>	—	—	—	-94 to 86°F (-70 to 30°C) <sup>‡</sup>	Open cell foams <sup>3</sup>
<b>Vinyls</b>								
4504/Black	Vinyl/Acrylic	0.250 (6)	20 (320)	90 (620)	4 (27.6)	15	0 to 150°F (-18 to 66°C)	Closed cell foams.
4508/Black	Vinyl/Acrylic	0.125 (3)	20 (320)	100 (690)	4 (27.6)	15	0 to 150°F (-18 to 66°C)	Closed cell foams.
4516/Black	Vinyl/Acrylic	0.062 (1.5)	25 (400)	130 (895)	4 (27.6)	15	0 to 150°F (-18 to 66°C)	Closed cell foams.
4714/Black	Vinyl/Acrylic	0.250 (6)	14 (225)	75 (515)	2 (13.8)	5	0 to 150°F (-18 to 66°C)	Closed cell foams.
4718/Black	Vinyl/Acrylic	0.125 (3)	18 (288)	95 (650)	2 (13.8)	5	0 to 150°F (-18 to 66°C)	Closed cell foams.
4726/Black	Vinyl/Acrylic	0.062 (1.5)	20 (320)	130 (895)	3 (20.7)	15	0 to 150°F (-18 to 66°C)	Closed cell foams.
<b>Silicones</b>								
S8000	Silicone/Acrylic	.031 (0.8)	—	800 (5.5)	—	—	-80 to 425°F (-62 to 218°C)	Solid.
S8100	Silicone/Acrylic	0.0625 (1.6)	—	450 (7.9)	—	—	-80 to 425°F (-62 to 218°C)	Solid.
S8300	Silicone/Acrylic	0.125 (3.2)	28 (449)	70 (483)	18 (124)	5 <sup>§</sup>	-67 to 392°F (-55 to 200°C)	Closed cell foams.
S8500	Silicone/Acrylic	0.125 (3.2)	20 (320)	45 (310)	8 (55)	5 <sup>§</sup>	-67 to 392°F (-55 to 200°C)	Closed cell foams.
S8700	Silicone/Acrylic	0.125 (3.2)	12 (192)	35 (241)	2 (14)	5 <sup>§</sup>	-67 to 392°F (-55 to 200°C)	Open cell foams.

<sup>†</sup>Not recommended for outdoor use

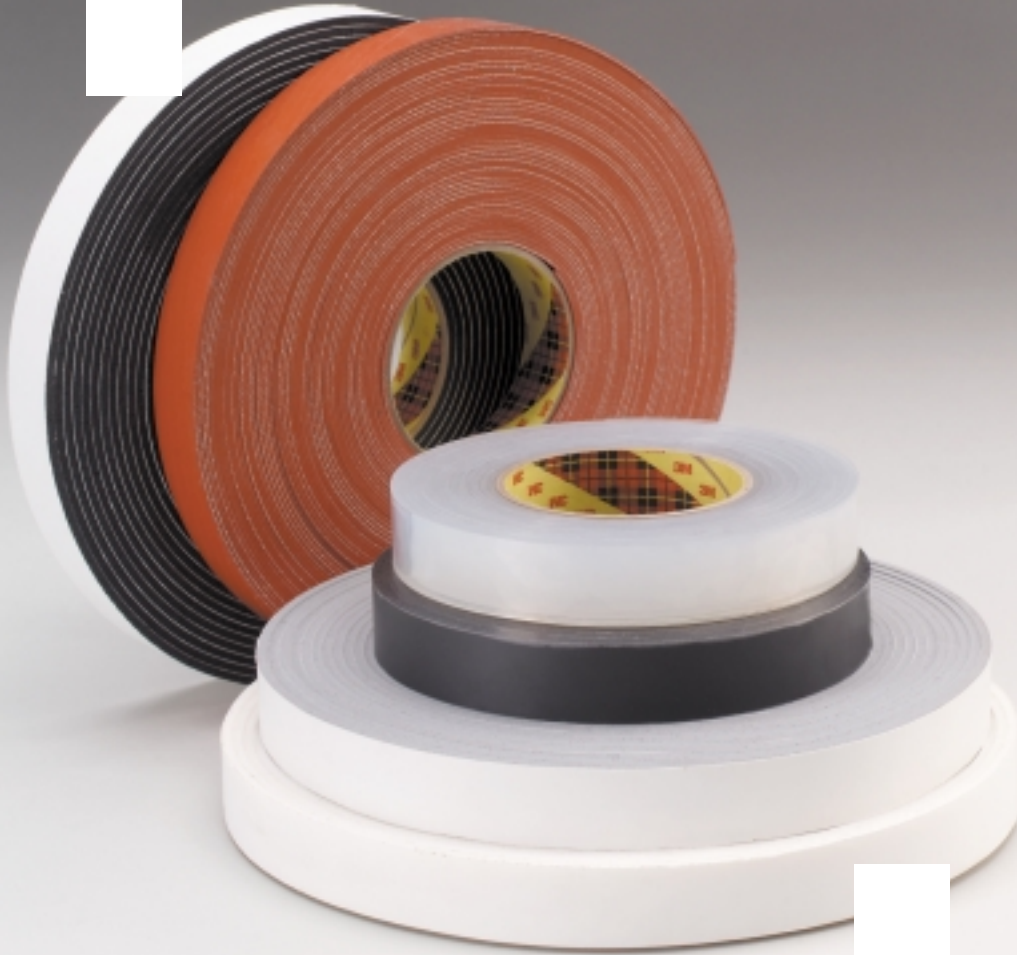
<sup>‡</sup>U.L. 94HFB approved

<sup>§</sup>FAR 25.853 (a)

<sup>§</sup>FAR 25.853 (b)

<sup>§</sup>Optimum Damping Temperature

<sup>§</sup>At 212°F (100°C)



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**HIGH TEMPERATURE SEAL:** On high temperature lighting fixtures, 3M™ Silicone Foam Tapes S8500 Series provide a flame retardant seal and medium level compression resistance.



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**MOISTURE/DIRT SEAL:** Moisture and dirt are kept outside cluster mailboxes with 3M™ Vinyl Foam Tape 4504 .



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**ELECTRONICS SEAL:** 3M™ Urethane Foam Tape 4318 acts as a cushioned seal and helps deaden sound on a computer printer cabinet.



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**STREETLIGHTS:** The weather resistance of closed cell vinyl foam seals out wind, rain, heat, and dust so that bulbs burn longer, highways remain brighter, and motorists stay safer.



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**AUTOMOBILES:** 3M Foam Tapes can be used in many different areas to help reduce vibration as well as provide a seal against dirt and moisture.



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**CELLULAR PHONES:** Sealing of liquid crystal displays and protection of sensitive internal components are some of the applications of foam tapes for cellular phones.