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Pressure Sensitive Acrylic Foam Tape GT7108

Technical Data Sheet

June 2012

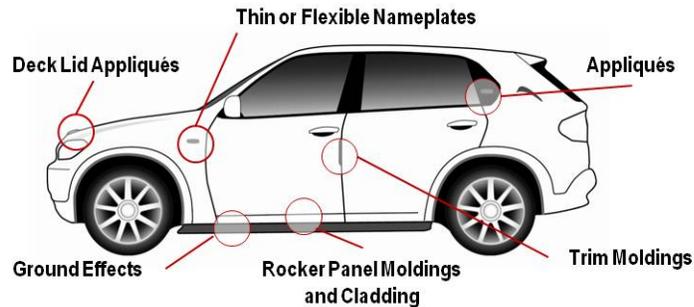
General Description

3M™ Pressure Sensitive Acrylic Foam Tape (AFT) GT7108 is a gray, acrylic foam tape designed for the attachment of emblems, nameplates, moldings, step pads and other automotive trim. The acrylic foam core has unique viscoelastic properties that allow it to elongate and relax when put under load, thereby minimizing stress on the adhesive bondline. It exhibits very good adhesion to traditional paints.

Key features of 3M AFT GT7108 include that it:

- Demonstrates excellent conformability and wet out on a range of automotive applications
- Maintains adhesion during the shrinkage and elongation of the part caused by temperature changes, while simultaneously maintaining good stress relaxation properties
- Provides very good final adhesion and peel strength
- Performs well in a wide range of weather, solvent and temperature conditions

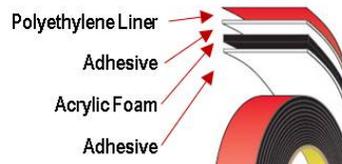
Applications



Shelf Life

One year from date of receipt by customer when stored at 22°C (72°F) and 50% relative humidity.

Product Construction



Physical Properties

Values shown are typical values not to be used for specification purposes. Other 3M AFT Series GT7100 thicknesses are available upon request. Contact a 3M technical service representative for further details.

Thickness (GT7108)	0.80 mm (± 0.10 mm) (0.031 in ± 0.004 in)
Density	658 kg/m ³ (± 80 kg/m ³) (41 lb/ft ³ ± 5 lb/ft ³)

Roll Width and Length (Planetary)

3M Pressure Sensitive Acrylic Foam Tapes are available in the following standard widths. Millimeter widths are rounded to the nearest whole numbers (7, 8, 9 mm . . .) and 1/8 inch increments starting with 1/4 inch (0.25, 0.375, 0.50, 0.625 inch . . .).

Minimum widths:
4 mm Levelwound
5 mm Planetary

Roll Width	Roll Width Tolerance	Roll Length (maximum)
Planetary Rolls		
< 8 mm (< 0.315 in)	+/- 0.38 mm (+/- 0.015 in.)	66 meters (72 yards)
8 - 9 mm (0.315 - 0.354 in)	+/- 0.38 mm (+/- 0.015 in.)	99 meters (108 yards)
10 - 18 mm (0.394 - 0.709 in)	+/- 0.38 mm (+/- 0.015 in.)	132 meters (144 yards)
> 18 mm (> 0.709 in.)	+/- 0.76 mm (+/- 0.030 in.)	132 meters (144 yards)
Levelwound Rolls		
4 - 16 mm (0.157 - 0.630 in.)	+/- 0.38 mm (+/- 0.015 in.)	900 meters (984 yards)

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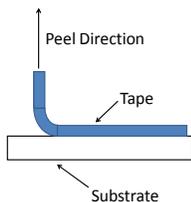
3M™ Pressure Sensitive Acrylic Foam Tape Series GT7100

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Performance Properties

Performance tests are run using standard test procedures. The values presented are typical values not to be used for specification purposes. All test data in this technical data sheet corresponds to the 0.80mm nominal thickness product.

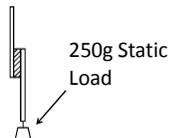
1. 90° Peel (Ibf/0.5")



Condition	Substrate	GT7108
Initial (20 minutes after adhesion)	Painted Panel	3.10
	Primed TPO Panel	7.81
Normal (24 hours after adhesion)	Painted Panel	3.56
	Primed TPO Panel	9.22
Heat aging (10 days at 80°C/176°F ambient temperature)	Painted Panel	11.14
	Primed TPO Panel	11.16
Heat and Humidity Aging (10 days at 40°C/104°F and 100%RH)	Painted Panel	3.96
	Primed TPO Panel	7.84

90° Peel Tests were run with 1/2" wide tape samples with Al strip backing at a pull rate of 12 in/min.

2. 80C Static Shear (Time to Failure in Minutes – 10,000 minutes MAX)



Condition	Substrate	GT7108
1"x1/2" tape sample laminated to the far end of a 3"x1" paint sample. 3"x1" anodized Al strip is then laminated to the other side of the test sample as indicated in the figure to the left. Tape sample tested in the 1" dimension direction.	Painted Panel and PVC Panel	10,000
		10,000
		10,000
		10,000
		10,000
		10,000

Contact Information

The information provided in this technical document is intended as a guide for this product. For more information, and help selecting a 3M product for an application, please contact a 3M technical service representative.

Regulatory

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