



Acrylic Foam Tape 5356

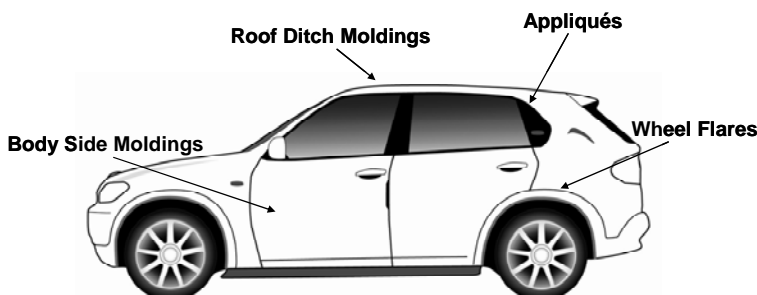
Technical Data Sheet

November 2008

Supersedes Technical Data Sheet dated May 1998

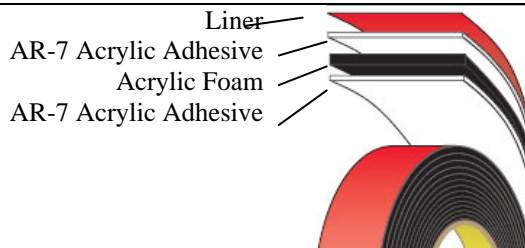
General Description 3M™ Acrylic Foam Tape (AFT) 5356 is a gray, double-coated acrylic foam tape used for the attachment of a variety of automotive exterior trim parts. 3M AFT 5356 is thicker than other acrylic foam tapes and is used where there is greater mismatch between the trim part and the sheet metal of the vehicle. Typical applications for 3M AFT 5356 include attachment of body side moldings, claddings, roof ditch moldings, wheel flares, and tailgate appliques. 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 bond line. 3M AFT 5356 has AR-7 adhesive on both sides of the product for a high level of adhesion to both the automotive paint and the exterior trim part.

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.

Thickness	1.52 mm (±0.15 mm) (0.060 in ±0.006 in)
Density	688 kg/m ³ (±80 kg/m ³) (43 lb/ft ³ ±5 lb/ft ³)

Roll Width and Length (Planetary)

3M™ Acrylic Foam Tapes are available in the following standard widths. Millimeter widths 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
6 mm Planetary

Roll Width	Roll Width Tolerance	Roll Length (maximum)
Planetary Rolls		
6 - 9 mm (0.315 - 0.375 in)	+/- 0.38 mm (+/-0.015 in.)	66 meters (72 yards)
10 - 18 mm (0.394 - 0.709 in)	+/- 0.38 mm (+/-0.015 in.)	99 meters (108 yards)
> 18 mm (> 0.709 in.)	+/- 0.76 mm (+/- 0.030 in.)	99 meters (108 yards)
Levelwound Rolls		
4 - 16 mm (0.157 - 0.630 in.)	+/- 0.38 mm (+/-0.015 in.)	500 meters (547 yards)

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Performance Properties

Performance tests are run using standard test procedures. These values presented are typical values not to be used for specification purposes.

1. Breakaway and Continuing Peel

72 hrs at 22°C (72°F)	Breakaway Peel	133 N/12.7 mm	(30 lbs/.5 in)
	Continuing Peel	67 N/12.7 mm	(15 lbs/.5 in)
72 hrs at 70°C (158°F)	Breakaway Peel	155 N/12.7 mm	(35 lbs/.5 in)
	Continuing Peel	75 N/12.7 mm	(17 lbs/.5 in)
72 hrs at 38°C /100% RH (100°F/100%RH)	Breakaway Peel	111 N/12.7 mm	(25 lbs/.5 in)
	Continuing Peel	58 N/12.7 mm	(13 lbs/.5 in)



Breakaway and continuing peel tests are run with 12.7 mm (0.5 in) wide tape on PVC test bars. Tests were run on base coat/clear coat paint at a separation rate of 305 mm/min (12 in/min).

2. Static Shear

Exceeds 100 hours at 70°C (158°F). Static shear tests are run with 12.7 mm (0.5 in) wide by 50.8 mm (2 in) long tape on PVC test bars, 6.8 kg (15 lbs) roll-down against stainless steel. Static weight is 250 gm (0.55 lbs).



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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