



Acrylic Foam Tape 5344

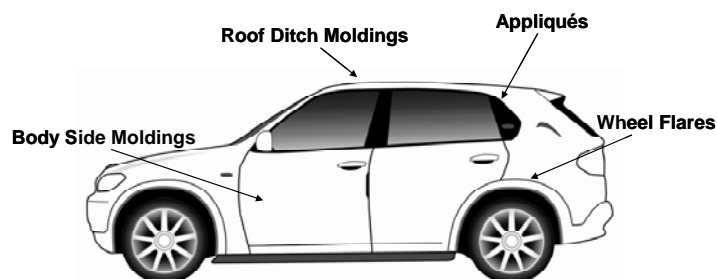
Technical Data Sheet

November 2008

Supersedes Technical Data Sheet dated May 1998

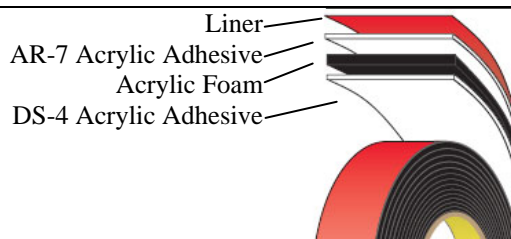
General Description 3M™ Acrylic Foam Tape (AFT) 5344 is a gray, double-coated acrylic foam tape commonly used for the attachment of automotive exterior trim parts such as body side moldings. 3M AFT 5344 is a medium density foam tape providing a balance of conformability and strength. The acrylic foam core has unique viscoelastic properties that allow it to elongate and relax when put under a load, thereby minimizing stress on the adhesive bond line. 3M AFT 5344 has AR-7 adhesive on the liner side of the product for bonding to automotive paint surfaces, and DS-4 adhesive on the nonlinear side of this product for bonding to 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	1.14 mm (± 0.10 mm) (0.045 in ± 0.004 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
 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 - 0.375 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)

Technical Data Sheet

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Page 2

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	111 N/12.7 mm	(25 lbs/.5 in)
	Continuing Peel	51 N/12.7 mm	(9 lbs/.5 in)
72 hrs at 70°C (158°F)	Breakaway Peel	133 N/12.7 mm	(30 lbs/.5 in)
	Continuing Peel	58 N/12.7 mm	(12 lbs/.5 in)
72 hrs at 38°C /100% RH (100°F/100%RH)	Breakaway Peel	133 N/12.7 mm	(30 lbs/.5 in)
	Continuing Peel	49 N/12.7 mm	(10 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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Automotive Division
3M Center, Building 223-1S-02
St. Paul, MN 55144-1000
www.3M.com/autosolutions

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75-3467-9996-0
Printed in U.S.A.



ISO/TS 16949:2002
File No. A2109