



Acrylic Foam Tape 5674

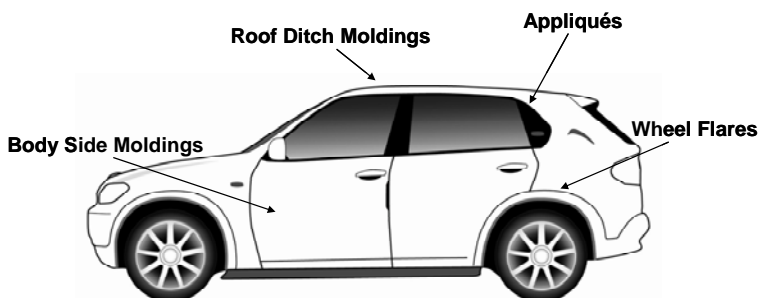
Technical Data Sheet

November 2008

Supersedes Technical Data Sheet dated June 2001

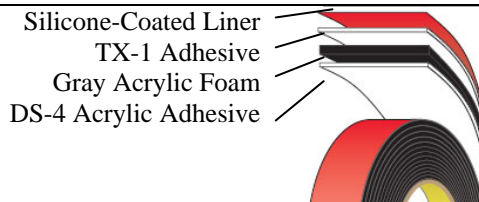
General Description 3M™ Acrylic Foam Tape 5674 is designed for the attachment of emblems, nameplates, moldings, step pads and other automotive trim, to unpainted thermoplastic polyolefin (TPO) and polypropylene (PP) surfaces. The key feature of 3M AFT 5674 is TX-1 adhesive on the liner side of the tape. TX-1 adhesive is designed to bond to low surface energy plastics such as TPO and PP without the use of an adhesion promoter. 3M AFT 5674 has DS-4 adhesive on the nonlinear side of the tape for bonding to the back of the 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

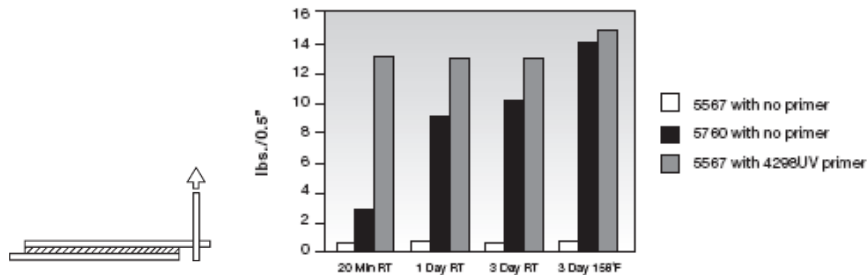
3M™ Acrylic Foam Tape 5674

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. 90° Peel Adhesion to Automotive Grade TPO



90° peel adhesion is tested to TPO substrates using 12.7 mm (0.5 in.) wide strip of 3M™ Acrylic Foam Tape 5760 backed with anodized aluminum foil. The strips are rolled down with 6.8 kg *15 lbs) and tested at a separation rate of 305 mm/minute (12 in/min). The above 90° peel adhesion data to automotive grade TPO shows the performance of 3M AFT 5760 with no primer is similar to the performance of 3M™ Acrylic Foam Tape 5567 with primer.



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

IMDS# 335886. This is a published material entry on www.mdssystem.com.

3M is a Trademark of 3M Company.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



Automotive Division
3M Center, Building 223-1S-02
St. Paul, MN 55144-1000
www.3M.com/autosolutions

© 3M 2008
75-3465-8175-6
Printed in U.S.A.



ISO/TS 16949:2002
File No. A2109