

3M™ Acrylic Foam Tape 5608

Technical Data Sheet

General Description

3M™ Acrylic Foam Tape 5608 is a 0.8 mm (.031 in) thick, medium-density, gray, heat-activated acrylic foam tape. One side of the tape is attached to the painted surface or respective substrate by AR7 Adhesive. The other side is bonded to the elastomeric part through heat activation. The heat activated adhesive provides a durable bond, especially to seals made of EPDM and TPE rubber. The tape is in particular suited for the attachment of elastomeric parts such as seals to car bodies or sunroofs.

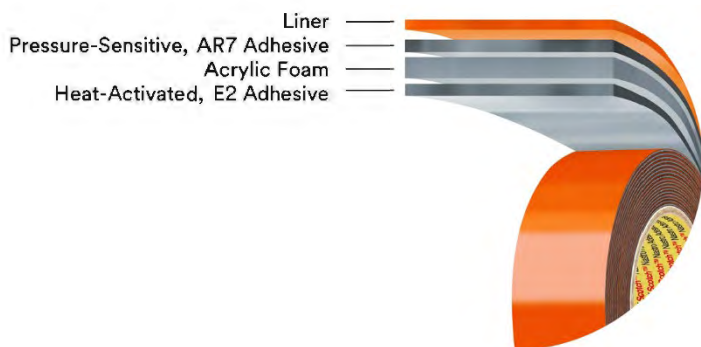


Product features of 3M AFT 5608 include:

- Optimized acrylate foam core for easy application and good adaptation to component surfaces
- Good initial adhesion allows immediate further processing often without temporary support or fixtures and good adhesion to many automotive paints
- Stress relaxation characteristics of the viscoelastic core, allow the tape to conform well to complex geometries and deliver excellent wet out
- Suitable for manual and automatic application processes
- Temperature and weather resistant
- Offers low and high temperature resistance; -30°C to +90°C with short-term resistance at +110°C (performance is load-dependent)

Since product performance will depend on actual conditions within a specific application, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular material purpose and suitable for the user's method of application.

Product Construction



Physical Properties

Property	5608
Thickness Range	0.8 mm ± 0.10 mm (0.031 inch ± 0.004 in)
Density Range	690 kg/m ³ ± 40 kg/m ³ (43,1 lb/ft ³ ± 2,5 lb/ft ³)
Core	Acrylic Foam Core
Color	Gray
Liner	Orange Polyethylene Film
Adhesive	Non liner-side: E2 heat-activated adhesive Liner Side: AR7 adhesive

Tabbing

- Heat-bond tabbing: 3M™ Tabbing Tape 5400 and 3M™ Tabbing Tape 5081
- PSA tab: 3M™ Tabbing Tape 5300

Consult application guidelines for detailed product use instructions.

Performance Properties

3M understands that development of automotive applications is typically driven by specification requirements and performance. Each OEM has their own unique criteria, and 3M continues to develop products to meet those demands. Test reports are available upon request. Please contact your 3M application engineer for support and to obtain specific test data.

Typical performance of 3M™ Acrylic Foam Tape 5608 is shown below. Peel and shear values depend on substrate characteristics and/or paint composition. These values are for reference only, and not to be used for specification purposes. For specification values please see the certificate of analysis.

Floating Roller Peel, v=50 mm/min, Liner Side to 2K Paint		
Conditions/Test Parameters	Typical Performance Value (N/cm)	Failure Mode
20 min RT	28.9	Mixed Adhesive Failure/Cohesive Failure
72 h RT	26.7	Cohesive Failure
10 d 70°C 98% RH	24.6	Mixed Adhesive Failure/Cohesive Failure
10 d 90°C	32.9	Cohesive Failure
30 min 110°C	27.4	Cohesive Failure

Shelf Life

Three years from date of manufacturing when stored in general indoor warehouse conditions, defined as approximately 4°C-38°C(40°F-100°F) and 30-70% relative humidity. The optimum storage conditions are 22°C (72°F) and 50% relative humidity.

3M Acrylic Foam Tape 5608 should be stored in typical storage conditions for heat-bond adhesives used within the automotive industry.

Levelwound rolls should be stored horizontally. During transportation, storage conditions are uncontrolled for a short period of time (a few days or weeks). This should not impact product performance. However, materials should not be stored in excess of the recommended conditions for extended periods.

Regulatory Information

The product is published as a material entry and is available for access on www.mdssystem.com. For product IMDS I.D. number, email requests to 3M-IMDSrequest@mmm.com.

Contact Information

The information provided in this technical document is intended as a guide for this product. For more information or help in selecting a 3M product for an application, please contact your 3M application engineering representative or [connect with a 3M expert](#).

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