

3M™ Acrylic Foam Tape 5845

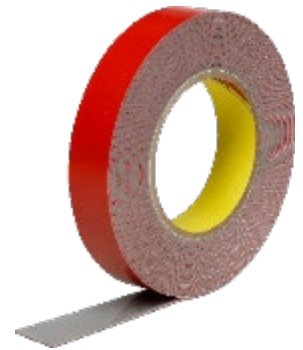
Technical Data Sheet

General Description

3M™ Acrylic Foam Tape 5845 is a 1.14 mm (0.045 in) thick, gray, double-coated acrylic foam tape used in a variety of automotive applications. The key feature of 3M AFT 5845 is AR7 adhesive on both sides of the product. The AR7 adhesive offers a high level of adhesion to both the automotive paint system and the exterior trim part. 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.

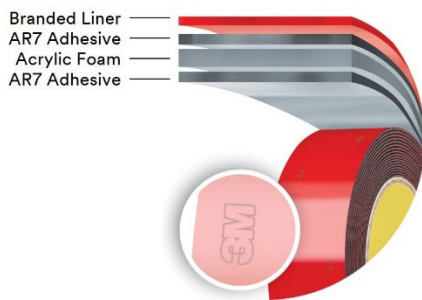
Additional product features of 3M AFT 5845 include:

- Unique foam core that provides stress relaxation when high application loads are encountered, while maintaining tight bond-line aesthetics under normal conditions.
- Bonds to a variety of automotive substrates.
- Provides high final adhesion and peel strength.



Since product performance will depend on actual conditions within a specific application, it is essential that the user evaluate the 3M product for fit and feasibility in their application. Potential applications of 3M AFT 5845 are the attachment of roof ditch moldings, wheel flares, appliques, and body side molding.

Product Construction



Physical Properties

Property	5845
Thickness Range	1.14 mm ± 0.10 mm (0.045 in ± 0.004 in)
Density Range	688 kg/m ³ ± 80 kg/m ³ (43 lb/ft ³ ± 5 lb/ft ³)
Core	Acrylic Foam
Color	Gray
Liner	3M Branded liner, red polyethylene (PE), 0.11 mm ± 0.01 mm (4.5 mils ± 0.4 mils)
Adhesive	Liner side: AR7 acrylic adhesive for adhesion to paint Non-liner side: AR7 acrylic adhesive for adhesion to exterior trim

Tabbing

- An extended liner tab is recommended.
- Heat-bond tabbing: 3M™ Tabbing Tape 5400 and 3M™ Tabbing Tape 5081 and 5082
- 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. Please contact your 3M application engineer for support and to obtain specific test data.

Typical performance of 3M™ Acrylic Foam Tape 5845 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.

90° Peel Adhesion			
Substrate	Conditions/Test Parameters	Product Number	Typical Performance Value (N/cm)
Liner Side to Automotive Paint Panel -1K	20 min RT, 300 mm/min	5845	12.0
	72 hrs RT, 300 mm/min		16.0
Static Shear Adhesion			
Substrate	Conditions/Test Parameters	Product Number	Typical Performance Value (minutes)
Liner Side to Automotive Paint Panel -1K	500 g, 70°C	5845	>10,000
Dynamic Shear Adhesion			
Substrate	Conditions/Test Parameters	Product Number	Typical Performance Value (kPa)
Liner Side to Automotive Paint Panel -1K	20 min RT, 12mm/min	5845	740
	72 hrs RT, 12mm/min		830

Shelf Life

3M Acrylic Foam Tape 5845 shelf life is 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 5845 should be stored in typical storage conditions for pressure sensitive 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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