

3M™ Acrylic Foam Tape 5845

Technical Data Sheet



Description

3M™ Acrylic Foam Tape 5845 is a 1.14 mm (0.045 in) thick, gray, double-coated acrylic foam tape designed for the attachment of automotive exterior trim parts such as body side moldings.

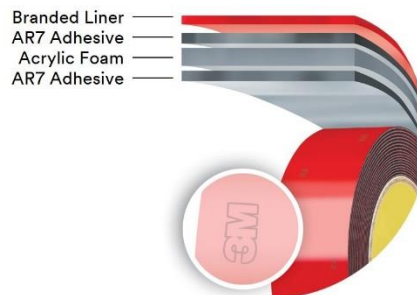
Product features of 3M AFT 5845 include:

- 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.

3M AFT 5845 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 5845 has AR7 adhesive on both sides of the product for a high level of adhesion to both the automotive paint and exterior trim part. 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.

Potential applications of 3M AFT 5845 are the attachment of roof ditch moldings, wheel flares, appliques, and body side molding.

Product Construction



Liner Options

See the technical update [“3M™ Acrylic Foam and Acrylic Plus Tapes: Product Constructions”](#) for liner and tabbing information.

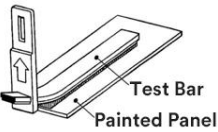
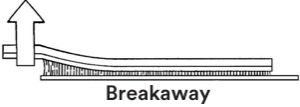
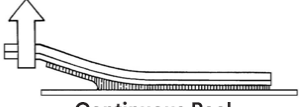
Physical Properties

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)

Performance Properties

Typical performance of 3M™ Acrylic Foam Tape 5845 is shown below. Peel and shear values depend on plastic substrate characteristics and/or paint composition. These values are for reference only.

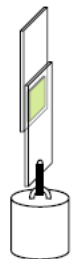
Breakaway and Continuous Peel

 <p>Test Bar Painted Panel</p>	72 hrs at 22°C (72°F)	Breakaway Peel	111 N/12.7 mm	(25 lbs/.5 in)
		Continuous Peel	51 N/12.7 mm	(9 lbs/.5 in)
 <p>Breakaway</p>	72 hrs at 70°C (158°F)	Breakaway Peel	133 N/12.7 mm	(30 lbs/.5 in)
		Continuous Peel	58 N/12.7 mm	(12 lbs/.5 in)
 <p>Continuous Peel</p>	72 hrs at 38°C /100% RH (100°F/100%RH)	Breakaway Peel	111 N/12.7 mm	(25 lbs/.5 in)
		Continuous Peel	49 N/12.7 mm	(10 lbs/.5 in)

Breakaway and continuous 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).

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).



Shelf Life

36 months from date of manufacture when stored at 4°C–38°C (40°F–100°F) and 0–95% relative humidity (RH). The optimum storage conditions are 22°C (72°F) and 50% relative humidity.

Regulatory Information

Please refer to the product label and Safety Data Sheet (SDS) for health and safety information before using. Observe proper handling precautions as outlined in the SDS, which is available on request or at www.3M.com/msds.

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 technical service representative or call 1-800-328-1684.

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