

3M™ Acrylic Foam Tape 5392

Technical Data Sheet



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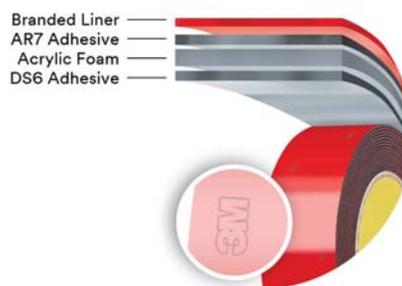
3M™ Acrylic Foam Tape 5392 is a 0.5 mm (0.020 in) thick, high density, double-coated acrylic foam tape commonly used for attachment of emblems, nameplates and other light-weight exterior automotive trim. Product features of 3M AFT 5392 include:

- 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.

The high density foam core and polyester liner enhance the diecuttability of this tape. 3M AFT 5392 has AR7 adhesive on the liner side for bonding to automotive paint surfaces, and DS6 adhesive on the non-liner side of the product. 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 5392 are the attachment of mechanically assisted narrow molding and window lace.

Product Construction



Liner Options

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

Physical Properties

5392	
Thickness Range	0.50 mm ±0.05 mm (0.020 in ±0.002 in)
Density Range	800 kg/m ³ ±80 kg/m ³ (50 lb/ft ³ ±5 lb/ft ³)

Roll Width and Length

3M™ Acrylic Foam Tapes are available in the following standard widths. Millimeter widths -- rounded to the nearest whole number-- and 1/8-inch increments starting with 1/4 inch.

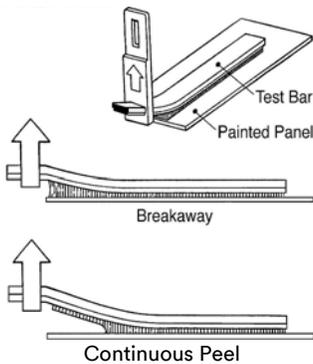
Minimum widths: 4 mm Levelwound, 5 mm Planetary (Standard versions)

Roll Width	Roll Width Tolerance	Roll Length (max)
Planetary Rolls		
< 7 mm (< 0.276 in)	+/- 0.38 mm (+/-0.015 in)	66 M (72 yds)
7 - 9 mm (0.276 - 0.375 in)	+/- 0.38 mm (+/-0.015 in)	99 M (108 yds)
10 - 18 mm (0.394 - 0.709 in)	+/- 0.38 mm (+/-0.015 in)	160 M (175 yds)
> 18 mm (> 0.709 in)	+/- 0.76 mm (+/- 0.030 in)	160 M (175 yds)
Levelwound Rolls		
4 - 16 mm (0.157 - 0.630 in)	+/- 0.38 mm (+/-0.015 in)	900 M (984 yds)

Performance Properties

Typical performance of 3M™ Acrylic Foam Tape 5392 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



72 hrs at 22°C (72°F)	Breakaway Peel	111 N/12.7 mm	(25 lbs/.5 in)
	Continuous Peel	27 N/12.7 mm	(6 lbs/.5 in)
72 hrs at 70°C (158°F)	Breakaway Peel	133 N/12.7 mm	(30 lbs/.5 in)
	Continuous Peel	31 N/12.7 mm	(7 lbs/.5 in)
72 hrs at 38°C /100% RH (100°F/100%RH)	Breakaway Peel	98 N/12.7 mm	(22 lbs/.5 in)
	Continuous Peel	26 N/12.7 mm	(6 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

One year from date of receipt by customer when stored at 4°C - 38°C (40°F - 100°F) and 0 - 95% relative humidity. 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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Automotive Division

3M Center
St. Paul, MN 55144-1000
Phone 1-800-328-1684
Web www.3M.com/autosolutions

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