

3M™ Acrylic Foam Tape 5344 and 5344PET

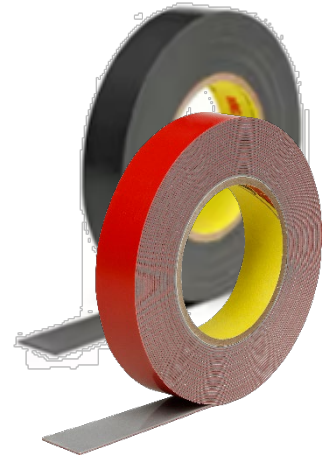
Technical Data Sheet

General Description

3M™ Acrylic Foam Tape 5344 and 5344PET are 1.14 mm (0.045 in) thick, gray, double-coated acrylic foam tapes commonly used for the attachment of automotive exterior trim parts. These medium density foam tapes provide a balance of conformability and strength. 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.

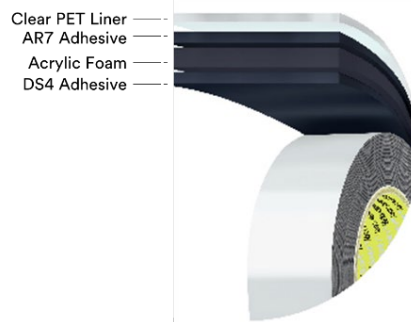
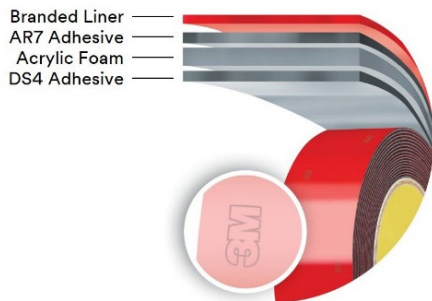
Product features of 3M AFT 5344 and 5344PET include:

- Unique foam core provides stress relaxation when high application loads are encountered, while maintaining tight bond-line aesthetics under normal conditions
- Liner side adhesive bonds to a variety of automotive substrates
- Non-liner side adhesive bonds to variety of exterior trim parts
- 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 5344 and 5344PET are the attachment of roof ditch moldings, wheel flares, appliques, and body side molding.

Product Construction



Physical Properties

Property	5344/5344PET
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) Clear polyethylene terephthalate (PET) liner, 0.08 mm ± 0.01 mm (3.0 mil ± 0.1 mil)
Adhesive	Liner side: AR7 acrylic adhesive for adhesion to paint Non-liner side: DS4 acrylic adhesive for adhesion to exterior trim

Tabbing

- Heat-bond tabbing: 3M™ Tabbing Tape 5400 and 3M™ Tabbing Tape 5081 and 5082
- PSA tab: 3M™ Tabbing Tape 5300

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 5344 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	5344	12.0
	72 hrs RT, 300 mm/min		17.0
Static Shear Adhesion			
Substrate	Conditions/Test Parameters	Product Number	Typical Performance Value (minutes)
Liner Side to Automotive Paint Panel -1K	500 g, 70°C	5344	>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	5344	740
	72 hrs RT, 12mm/min		830

Shelf Life

3M Acrylic Foam Tape 5344 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 5344PET shelf life is two 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 5344 and 5344PET 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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