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3M™ Acrylic Foam Tape 4229P

Technical Data Sheet

General Description

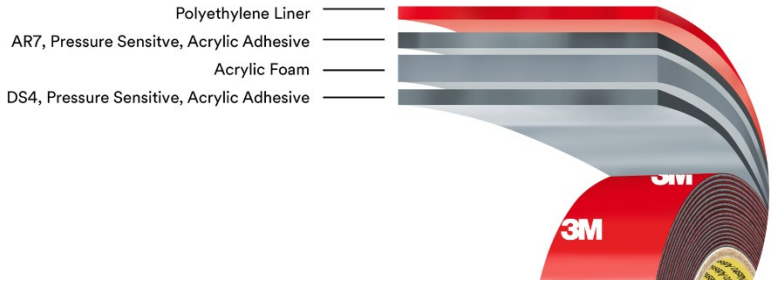


3M™ Acrylic Foam Tape 4229P is a medium-density, dark gray acrylic foam tape with high performance acrylic adhesives. 3M acrylic foam tape 4229P is characterized by high performance peel and shear adhesion, high internal strength, good conformability and excellent plasticizer resistance.

3M Acrylic Foam Tape 4229P utilizes the same proprietary acrylic foam core and adhesive technology that has been proven successful on numerous OEM automotive applications. The acrylic foam core has unique viscoelastic properties allowing it to elongate and relax when put under load, thereby minimizing stress on the adhesive bond line. These properties allow the tape to bond more effectively to a wide variety of automotive surfaces.

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. Typical applications include body side moldings; stainless steel, rocker panels wheel lip moldings, door edge moldings, nameplates/ ornamentation, and wind and rain deflectors.

Product Construction



Physical Properties

Property	4229P
Thickness Range	0.76 mm ± 0.08 mm (0.030 in ± 0.0031 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	Red polyethylene (PE) with white 3M Logo, 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: DS4 acrylic adhesive for adhesion to exterior trim

Performance Properties

Typical performance of 3M™ Acrylic Foam Tape 4229P 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		
Substrate	**Conditions/Test Parameters**	**Typical Performance Value (N/cm)**
Liner Side to Automotive Paint Panel -1K	20 minutes, RT	17
	72 hours, RT	21
	7 days 70°C, RT	40
	72 hours 40°C/93% RH, RT	25
	1 hour 80°C, 80°C	12
Static Shear		
Substrate	**Conditions/Test Parameters**	**Typical Performance Value (minutes)**
Liner Side to Automotive Paint Panel -1K	70°C, 500g	< 10,000

Note: Many plastic substrates can be difficult to adhere to and may require the use of a 3M™ Adhesion Promoter to ensure a reliable bond. Please contact 3M application engineering for assistance with application questions.

Shelf Life

3M Acrylic Foam Tape 4229P shelf life is three years from date of manufacturing when stored at 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 4229P should be stored in typical storage conditions for pressure sensitive adhesives used within the automotive industry.

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.mdsystem.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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