

3M™ Acrylic Foam Tape PX5008

Technical Datasheet

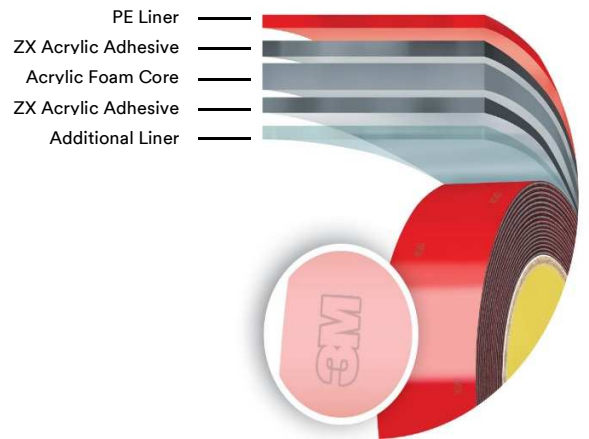
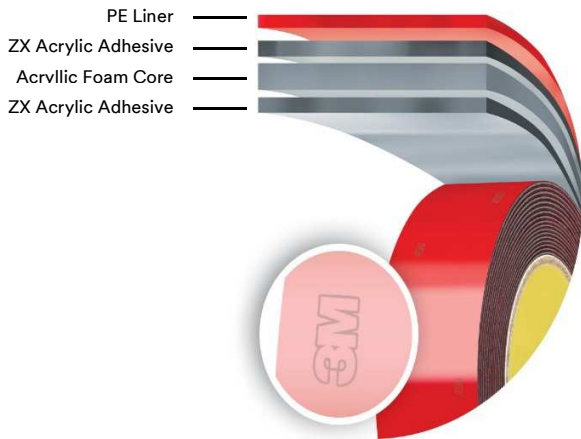


3M™ Acrylic Foam Tape Series PX5008 is a grey, double-coated acrylic foam tape with very good initial and excellent final adhesion to low surface energy and medium surface energy surfaces. The ZX adhesive on both sides of the tape can be used without any surface treatment to difficult substrates such as PP EPDM and MSE plastics or paints.

It is designed for the attachment of automotive exterior trim parts such as moldings and bumper sensors. The foam core gives good wet-out properties and adaption to complex geometries.

Additional PX5008 offers good internal strength and good long term stability in heat and cold conditions.

Construction



Properties

Core Viscoelastic Acrylic Foam, Density (680 kg/m³)

Colour Medium Grey

Thickness (w/o Liner) 0.8 mm + / - 0.1 mm

Width Tolerance + / - 0.4 mm

Liner B – red, siliconized polyethylene foil on both sides
Undercut instead of tabbing tape.

Adhesive Non-Liner Side and Liner Side ZX high performance acrylic adhesive with very good initial and excellent final tack for low surface energy plastics like PP EPDM and medium surface energy plastics such as ABS or medium surface energy paint systems.

Mass per Unit (appr.)	Type	PX 5008 B	PX 5008 T (not available, coming soon)
	Tape	0.5 kg/m ²	0.5 kg/m ²
	Liner	0.11 kg/m ²	0.16 kg/m ²

Shelf life Following shelf life when stored in unopened original cartons at +4°C to +38°C and 0 - 95 % relative humidity is considered from date of delivery:
- Products with siliconized polyethylene- and paper liner 12 months
- Level wound rolls and die-cuts 12 months

Heat resistance Level wound rolls must be stored under lay flat conditions.
- 40°C to + 90°C, short term 120°C (both values are load-dependent)

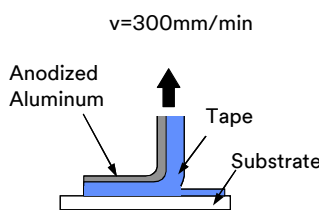
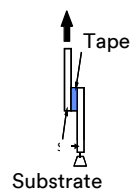
Splices Number of splices depends on order quantity and roll-length. Level wound rolls have 3 to 4 splices in average. Smaller order quantities (smaller than one jumbo) rolls could contain up to 14 splices.

IMDS Nr. <http://www.mdsystem.com/imdsnt/startpage/index.jsp>



Performance Properties (Typical Values)

Performance tests are run using standard test procedures. The values presented are typical values not to be used for specification purposes. 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.

Drawing	Test	Result
	90 ° Peel Adhesion on polished Steel 3M TMG 1637 20 Minutes at RT 72 Hours at RT	Liner Side: 32 N/cm 40 N/cm
	90 ° Peel Adhesion on PP EPDM TD10 20 Minutes at RT 72 Hours at RT	Non-Liner Side: 25 N/cm 32 N/cm
	90 ° Peel Adhesion on MSE Clear Coat 20 Minutes at RT 72 Hours at RT	Liner Side: 24 N/cm 27 N/cm
	90 ° Peel Adhesion on ABS 20 Minutes at RT 72 Hours at RT	Non-Liner Side: 35 N/cm 39 N/cm
		Static Shear Static shear tests run with 25.4 mm by 12.7 mm wide tape. 6.8 kg roll-down against PP EPDM T10 or MSE Clear Coat 24 Hours Condition at RT, test at 80°C, load of 500 gr

Characteristics of Acrylic Foam Tape

The medium grey Acrylic Foam Tape is manufactured using a special process, which yields a homogeneous system of high performance acrylic adhesive. This can be used for low surface energy like PP EPDM and medium surface energy plastics such as ABS or paint systems without using adhesion promoter or pre-treatment such as flaming.

The unique viscoelastic nature of acrylic results in high cohesive strength, combined with excellent shock and weathering resistance. To optimize bond strength, the surfaces must be clean, dry and smooth with good fit between part and substrate. Decisive for good adhesion performance is full surface contact between tape and substrate. Contact is achieved by pressurization. In practice a pressure between 10 - 50 N/cm² is usually needed and an application temperature between 18 - 40 °C is also necessary. During application, add-on parts and tapes must have the same temperature.

Additional Information

This data sheet contains specific information about the product. General characteristics and application information of acrylic foam tapes are available separately.

Important notice

All statements, technical information and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. Please ensure before using our product that it is suitable for your intended use.

All questions of liability relating to this product are governed by the Terms of Sale subject, where applicable, to the prevailing law.



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