



5745

3M™ Acrylic Foam Tape

Technical Data Sheet

November 2008

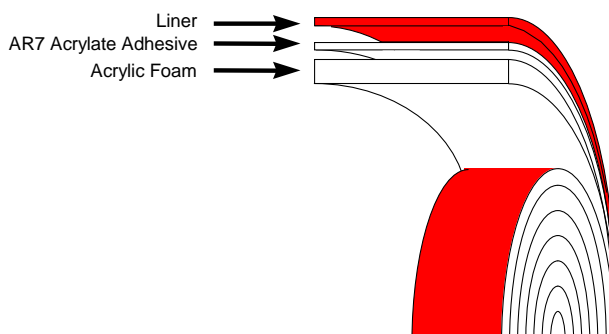
Description

5745 is a 3M™ Acrylic Foam Tape of medium density, grey foamed acrylic adhesive with additional acrylate adhesive on one side.

Typical applications are attachments of exterior add-on-parts.

5745 possesses a very good adhesion and good shear strength to many automotive surfaces, good inner strength, excellent long term stability as well as a very good adaptability to the areas adhered to. Thru the unique viscoelastic property of the 5745, stress is decreased in the adhesive bond line so that durable bondings are formed.

Construction

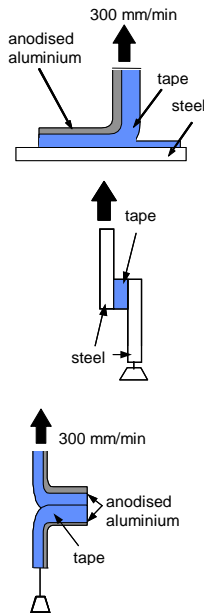


General Properties

Core	viscoelastic Acrylic Foam, medium density (690 kg/m ³)
Colour	grey
Thickness (without liner)	2.0 mm ± 0.15 mm
Adhesive to paint (liner side)	AR7 acrylate adhesive with high initial and final tack to paints
Adhesive to add-on-part (non-liner side)	self-stick
Liner	L - red Polyethylenefoil
Shelf Life	Up to 12 months from date of delivery when stored in unopened original cartons at +4°C to +38°C and at 0 - 95% relative humidity

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Performance Properties (Typical Values)



Test	Result
90° peel adhesion on polished steel 3M TM 1637 20 minutes at RT 72 hours at RT	AR7 side: 47 N/cm 48 N/cm
Static Shear Adhesion 3M TM 1266-B The static shear test is carried out with an bonded area of 25.4 mm by 12.7 mm wide tape. 6.8 kg roll-down against polished steel	Exceeds more than 10,000 minutes at 90°C Weight: 500 gr
Alu T-Peel 3M TM 1636	23 N/cm

Characteristics of the Acrylic Foam Tape

The Acrylic Foam Tape is manufactured using a special process of producing a homogeneous system of high performance acrylic adhesive.

The product can be used for numerous applications both on the exterior and interior of vehicles.

The unique viscoelastic nature of acrylic foam gives it a high cohesive strength combined with excellent shock and weathering resistance. The initial adhesion increases with time to provide a durable, high performance bond between the part and the painted substrate. To get an optimised bond, the surfaces must be clean, dry and possibly flat, and show a good fit. Decisive for the raise of adhesion force is the overall contact about the whole area to be bonded. The contact is being forced by the pressure. For practically bonding there is a pressure between 10 to 50 N/cm² required, while having a temperature of 18°C or higher.

Additional Information

This data sheet contains specific information about the product. General characteristics and application rules 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.

