



Automotive Technical Data Sheet

3M™ Acrylic Foam Tape

5363

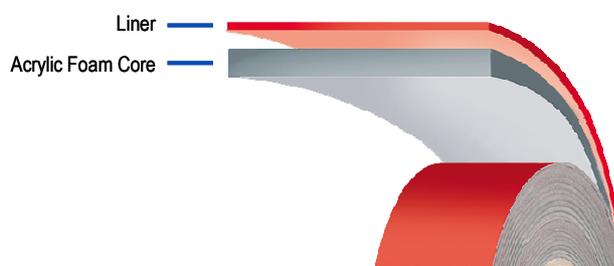
Description

5363 is a 3M™ Acrylic Foam Tape with dark grey acrylic adhesive foam core.

Typical applications are attachments of exterior add-on-parts such as body side moldings, trims or emblems/inserts.

5363 demonstrates a good adhesion to many automotive surfaces, good inner strength, excellent long term stability as well as a very good adaptability to the areas adhered to. Due to the unique viscoelastic nature of 5363 stress is dissipated in the tape this results in formation of durable bonds.

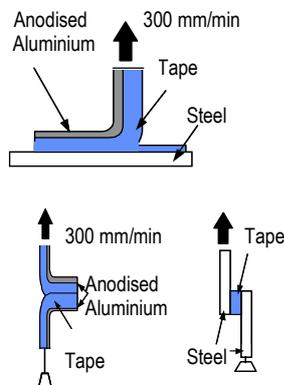
Construction



General Properties			
Core	Visco-elastic Acrylic Foam, density (840 kg/m ³)		
Colour	Dark grey		
Thickness (without liner)	0.4 mm + / - 0.075 mm		
Width tolerance	0.4 mm		
Liner	F – red polyethylene foil P – both side siliconized paper liner		
Mass per unit area (approx.)	Type	5363 F	5363 P
	Tape	0.34 kg/m ²	0.34 kg/m ²
	Liner	0.11 kg/m ²	0.09 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 non -siliconized polyethylene liner 24 months - Products with siliconized polyethylene- and paper liner 12 months Level wound rolls must be stored under lay flat conditions.		
Heat resistance	- 40°C to + 120°C, short term 160°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.mdssystem.de		

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.



Test	Result
90 ° peel adhesion on polished steel 3M TMG 1637 20 minutes at RT 72 hours at RT	Both tape sides: 17 N/cm 23 N/cm
Static Shear Adhesion 3M TMG 1266 The static shear test is carried out with a 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 grams
Alu T- Peel 3M TMG 1636	Both tape sides: 21 N/cm

Characteristics of 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. Generally the adhesion increases with time, resulting in a durable, high performance bond between the part and the substrate. 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 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.

