

3M™ Acrylic Plus Tape Series PT1000

Technical Data Sheet



Product Description

The 3M™ Acrylic Foam PT1000 Series Tapes are made from a black acrylic foam and are particularly suitable for attaching automotive components. The special product properties produce a high adhesion on difficult surfaces.

Product Features

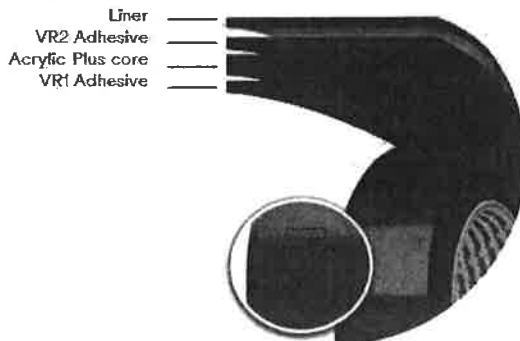
- Outstanding adhesion to many automotive paints and MSE (Medium surface energy) plastics.
- Operating temperature up to 90°C.
- Optimized acrylate foam core for easy application and good adaptation to component surfaces.
- Temperature, weather, UV and solvent resistant.
- Suitable for all manual and automatic application processes.

Advantages

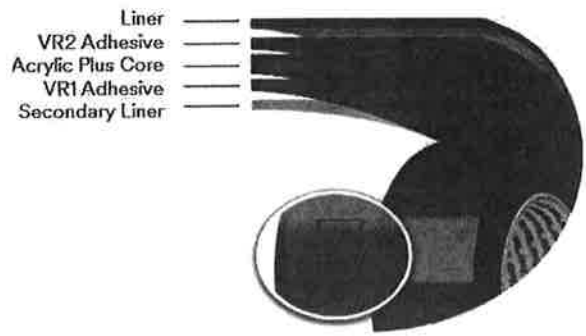
- 3M™ Acrylic Foam Adhesive Tapes can compensate stress due to their unique viscoelasticity. In contrast to foam adhesive tapes (PE, PU adhesive tapes), they can cope with significant elongation differences between substrates in case of temperature changes.
- Easy to use: The tape can be easily processed in multiple ways to cut and to apply.
- Immediate initial adhesion: The initial adhesion allows immediate further processing without temporary support or fixtures.
- Freedom of design: enables the easy differentiation of vehicle models through modified trim attachments without change of the body configuration.
- Sealing and damping properties: positive improvement of NVH properties.

Product Construction

PT1100F/PT1500F



PT1100T/PT1500T



Physical Properties

Typical Values	PT1100	PT1500
Thickness	1.1 mm	1.5 mm
90° Peel on 3M Reference Stainless Steel plates (Specification values have to be determined on customer substrate)		
20 min RT Liner Side (LS)	35 N/cm	42 N/cm
20 min RT Non-Liner Side (NLS)	35 N/cm	42 N/cm
Density	545 kg/m ³	521 kg/m ³
Core	3M™ Acrylic Plus Tape	
Color	Black	
Liner	<p>F: Red branded polyethylene foil, both sides siliconized.</p> <p>T: Version with one side siliconized red polyethylene foil, good for tabbing tape bonding and an additional, one side siliconized transparent polyethylene liner, to be removed before application.</p> <p>This liner is available for die cuts, level wound rolls and planetary rolls from 100 mm width upwards.</p>	
Adhesive Liner Side (LS) and Non-Liner Side (NLS)	<p>Liner Side (LS): VR2 adhesive with very high initial and final tack to paint.</p> <p>Non-Line Side (NLS): VR1 adhesive with very high initial and final tack.</p>	
Shelf Life	<p>Minimum one year after arrival at the customer when stored in unopened original cartons. Storage conditions 4°C-38°C (40° F-100° F) and 0-95% relative humidity. Level-wound rolls should always be stored horizontally.</p>	
Temperature Resistance	-40°C to +90°C, short term 120°C (both values are load-dependent).	
Tabbing	<p>An extended liner tab is recommended.</p> <p>PSA Tabbing: 3M™ Tabbing Tape 5699 for siliconized liners (Test first).</p> <p>T Version use 3M™ Heat-bonding tabbing 5081 - 5082.</p>	
Splices	<p>Number of splices depends on order quantity and roll length.</p> <p>Level-wound rolls have 3-4 splices on average. Smaller order quantities (less than 400 m²) rolls could contain a significantly different number of splices.</p>	
Regulatory Information	<p>Please refer to the product label and Safety Data Sheet (SDS) for health and safety information before using. Observe proper handling precautions as outlined in the SDS, which is available on request or use www.3M.com/msds.</p> <p>The product is published as material entry and is available for access on www.mdsystem.com. For Product IMDS ID Number, email requests to 3M-IMDSrequest@mmm.com. (In Germany use ge-produktsicherheit@mmm.com).</p>	
IMDS	http://www.mdsystem.com/imdsnt/startpage/index.jsp	

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Revision 01

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Supersedes former versions.