

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

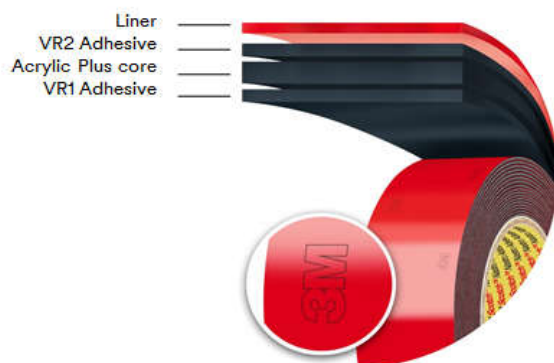
- Outstanding adhesion to many automotive paints and MSE (Medium surface energy) plastics.
- Operating temperature up to 90°C.
- Optimized acrylate foam core for easy application and good adaptation to component surfaces.
- Temperature, weather, UV and solvent resistant.
- Suitable for all manual and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

Advantages

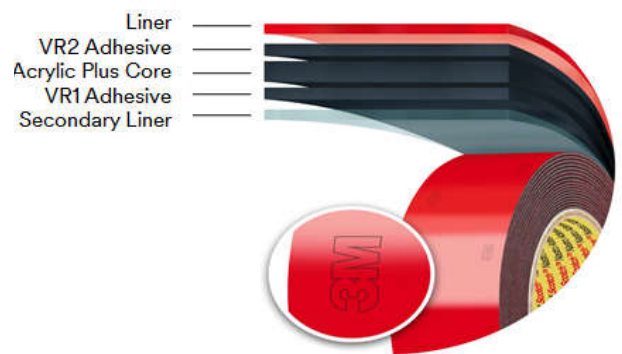
- 3M™ Acrylic Foam Adhesive Tapes can compensate stress due to their unique viscoelasticity. In contrast to foam adhesive tapes (PE, PU adhesive tapes), they can cope with significant elongation differences between substrates in case of temperature changes.
- Easy to use: The tape can be easily processed 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><u>Film liner</u></p> <p>Duration: 24 month from date of manufacturing</p> <p>Conditions: 4 °C - 38 °C and 0 - 95 % RH in original unopened packaging – optimum: 23 °C ± 2 °C and 50% ± 4 % RH</p> <p><u>Levelwound rolls</u> to 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	

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed and not for use in specifications.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: This 3M product is sold or made available "AS IS." 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



3M Deutschland GmbH
Automotive & Aerospace
Solutions Division
Carl-Schurz-Strasse-1
D-41453 Neuss
Tel. +49-2131-14-3580
www.3M-Automotive.de

3M Österreich GmbH
Automotive & Aerospace
Solutions Division
Kranichberggasse 4
1120 Wien
Tel: +43-1-86 686-0

© 3M 2019 All Rights Reserved

PT1000 Series_E_02 (11/2019)

Revision 02

3M (Schweiz) GmbH
Automotive & Aerospace
Solutions Division
Eggstrasse 93
8803 Rüschiikon
Tel: +41 44 724 90 90

Supersedes former versions.