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November 2019

3M™ Acrylic Foam Tape Series PX5000

Technical Data Sheet

Product Description

3M™ Acrylic Foam Tape Series PX5000 are made of acrylic foam and are particularly suitable for mounting automotive trim attachments. The special product properties allow high adhesion on difficult-to-adhere surfaces. In many cases, this allows attachment bonding without any further surface treatment.

Product Features

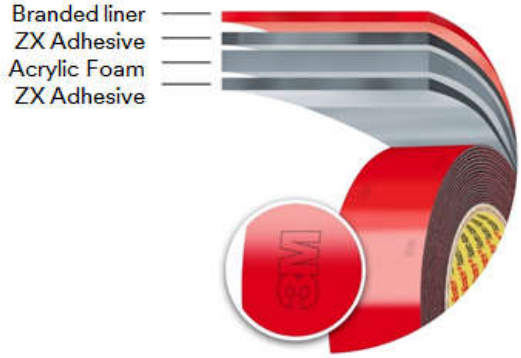
- Outstanding adhesion to low surface energy plastics (LSE) and many automotive paints.
- Operating temperature up to 90°C*.
- Optimized acrylate foam core for easy application and good adaptation to component surfaces.
- Temperature, weather, UV and solvent resistant.
- Suitable for all manual and automatic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

Advantages

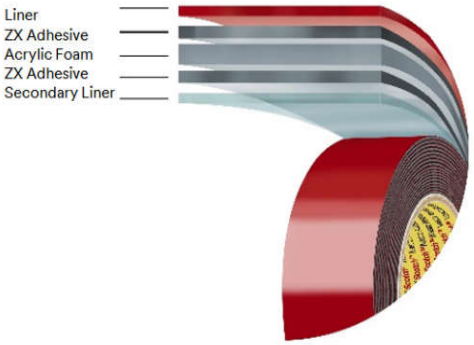
- 3M ™ Acrylic Foam Adhesive Tapes can compensate stress due to their unique viscoelasticity. In contrast to foam adhesive tapes (PE, PU adhesive tapes), they can cope with significant elongation differences between substrates in case of temperature changes.
- Easy to use: The tape can be easily processed 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

PX5000F



PX5000T



Physical Properties

Typical Values	PX5005	PX5008	PX5011	PX5015
Thickness	0.5 mm	0.8 mm	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)	18 N/cm	19 N/cm	21 N/cm	17 N/cm
20 min RT Non-Liner Side (NLS)	18 N/cm	19 N/cm	21 N/cm	17 N/cm
72 h RT Liner Side (LS)	23 N/cm	24 N/cm	26 N/cm	26 N/cm
72 h RT Non-Liner Side (NLS)	23 N/cm	24 N/cm	26 N/cm	26 N/cm
Density	670 kg/m³			
Core	3M™ Acrylic Foam Tape			
Color	Gray			
Liner	F: Red branded polyethylene foil, both sides siliconized. Tabbing method undercut. T: Brick polyethylene foil, single side siliconized plus secondary liner (for level-wound rolls). Tabbing tapes can be used. P: Siliconized paper.			
Adhesive Liner Side (LS) and Non-Liner Side (NLS)	ZX: high performance adhesive with very good initial and excellent final tack for low surface energy plastics (LSE), such as PP/EPDM, or medium surface energy paints.			
Shelf Life	Film liner & Paper liner Duration: 24 months from date of manufacturing Conditions: 4 °C - 38 °C and 0 - 95 % RH in original unopened packaging – optimum: 23 °C ± 2 °C and 50% ± 4 % RH Levelwound rolls to be stored horizontally.			
Temperature Resistance	-40°C to +90°C, short term 120°C (both values are load-dependent). *Applications demanding >80°C require additional testing.			
Tabbing	An extended liner tab is recommended. PSA Tabbing: 3M™ Tabbing Tape 5699 for siliconized liners (Test first). T Version use 3M™ Heat-bonding tabbing 5081 - 5082.			
Splices	Number of splices depends on order quantity and roll length. 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.			
Regulatory Information	Please refere 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. 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).			
IMDS	http://www.mdsystem.com/imdsnt/startpage/index.jsp			

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Supersedes former versions.