

3M™ Acrylic Plus Tape WT4100 Series

Technical Data Sheet



Product Description

3M™ Acrylic Plus Tape Series WT4100 is a tape very well suited for the attachment of elastomeric add-on-parts like seals to the car body or door.

The WT4100 Series shows very good adhesion to modern automotive surfaces and paints that are difficult to adhere to. One side of the tape is applied with a special pressure sensitive high performance adhesive to the painted surface or respective substrate. The other side is bonded to the elastomeric part through heat activation. The heat activatable adhesive guarantees a durable bond especially to seals made of EPDM and TPE. This combination is well suitable for robot supported applications. The visco-elastic core guarantees good wet-out and conformability to the surface geometry. In addition, tape inner strength and excellent long-term stability are characteristic attributes.

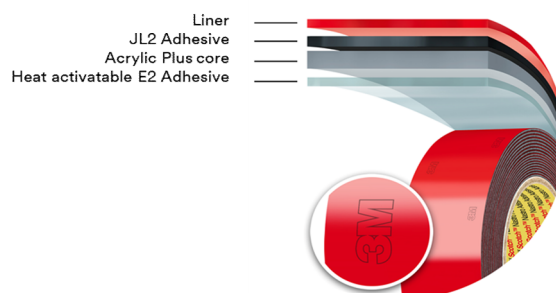
Product Features

- 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



Physical Properties

Typical Values	WT4108	WT4112
Thickness	0,8 mm	1,2 mm
90° Peel (Specification values have to be determined on customer substrate)		
Uregloss Clearcoat 20 min RT Liner Side	32 N/cm	36 N/cm
Uregloss Clearcoat 24 h RT (LS)	34 N/cm	38 N/cm
TMAC9000 Clearcoat 20 in RT (LS)	10 N/cm	12 N/cm
Density	633 kg/m ³	545 kg/m ³
Core	3M™ Acrylic Plus Tape	
Color	Grey with Black Adhesive	
Liner	Red polyethylene film (branded), one side siliconized.	
Adhesive Liner Side (LS) and Non-Liner Side (NLS)	Liner Side (LS) (paint side): JL2 High performance acrylic adhesive with very high initial and final tack for modern paint systems. Non-liner side (NLS) (to rubber): E2 heat activatable adhesive for EPDM and TPE.	
Shelf Life	<u>Film liner</u> Duration: 24 month 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 <u>Levelwound rolls</u> to be stored horizontally.	
Temperature Resistance	-40°C to +90°C, short term 120°C (both values are load-dependent).	
Tabbing	An extended liner tab is recommended. 3M™ PSA Tabbing 5300 or 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 m ²) rolls could contain a significantly different number of splices.	
Regulatory Information	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 . The product is published as material entry and is available for access on www.mdssystem.com . For Product IMDS ID Number, email requests to 3M-IMDSrequest@mmm.com . (In Germany use ge-produktsicherheit@mmm.com).	
IMDS	http://www.mdssystem.com/imdsnt/startpage/index.jsp	

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Revision 01

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