



Technical Data Sheet

Tape & Adhesive

3M ID9007

SEP 2011 (V2)

Product Description ID9007 is a double coated non woven tapes with modified acrylic adhesive. This product is specially formulated for high bonding performance at moderate temperature applications. This product has very good adhesion to many kind of substrates including metal, painted substrate and many kind of plastics.

- Application Idea**
- Plastic parts attachment
 - Automotive parts attachment
 - Cushion bonding
 - General purpose joining and mounting application
 - Name plates attachment
 - Decorative attachment
 - Plastic & Paper bonding

Product Construction	Adhesive Type	Modified Acrylic Adhesive
	Tape Thickness	0.16 mm (+/- 0.02 mm)
	Tape Color	Off-White
	Carrier	Non-woven
	Release Liner	Poly coated Paper with Light Red 3M logo printed
	Liner Thickness	0.15 mm (+/- 0.02mm)

Typical Physical Properties **Note: The following information and data should be considered representative or typical only and should not be used for specification purposes.**

Adhesion Strength		(N/inch)
ASTM D3330	SS	17
180° Peel Strength	PP	17
Jaw Speed: 12 inch/min		

Dynamic Shear Strength	Initial	(N/inch ²)
ASTM D-1002	SS	90
Jaw Speed : 12.7 mm/min	RT, 72 hrs	
	SS	130

Relative High Temperature Operating Ranges

Long Term (days, weeks)	70 ^o - 80 ^o C	Depend on substrate
Short Term (minutes, hours)	120 ^o C	

Application Technique	<p>Bond strength is dependent upon the amount on adhesive-to-surface contact developed, firm application pressure helps develop better adhesive contact and improve bond strength</p> <p>To obtain optimum adhesion, the bonding surface must be clean, dry and well unified. Typical surface cleaning solvent is isopropyl alcohol and water mixed (75:25). Be sure to follow the manufacturer's precautions and directions when use the solvents.</p> <p>Ideal tape application temperature range is 21⁰C to 38⁰C. Initial tape application to surface at temperature below 10⁰C is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.</p>
Shelf life	<p>12 months from date of manufacture when stored in original cartons at 21⁰ -25⁰ Celcius and maximum 50% relative humidity</p>
Important Notice	<p>3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's application</p>
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