

Dow BETAMATE™ 1496 V Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

BETAMATE™ 1496 V is a one component, epoxy based adhesive especially developed for the body shop. The product has the following properties: Good rheology performance (Wash-out resistant, excellent after gelling) Readily pumped at elevated temperatures Excellent adhesion to automotive steels, including coated steels and pretreated aluminum Resistant to degradation and substrate corrosion on environmental aging Compatible with electro-coat paint process in uncured state Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-BETAMATE-1496-V-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.15 - 1.21 g/cc	0.0415 - 0.0437 lb/in³	
Solids Content	>= 99 %	>= 99 %	
Viscosity	500000 cP @Shear Rate 1.00 1/s, Temperature 40.0 °C	500000 cP @Shear Rate 1.00 1/s, Temperature 104 °F	cone/plate

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ISO 527-1
Elongation at Break	15 %	15 %	ISO 527-1
Modulus of Elasticity	1.60 GPa	232 ksi	ISO 527-1
Adhesive Bond Strength	30.0 MPa @Thickness 2.00 mm	4350 psi @Thickness 0.0787 in	Lap Shear (25 x 10 x 0.2 mm) (CRS St 1203, 170°C/30); EN 1465
Peel Strength	4.00 kN/m	22.8 pli	T-Peel (CRS St 1203, 0.5mm)
	28.0 kN/m	160 pli	Impact Peel

Thermal Properties	Metric	English	Comments
Flash Point	>= 150 °C	>= 302 °F	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min @Temperature 170 °C	0.500 hour @Temperature 338 °F	
	60.0 min @Temperature 155 °C	1.00 hour @Temperature 311 °F	

Processing Properties	Metric	English	Comments
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