

Dow BETAMATE™ 1045 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

BETAMATE™ 1045 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 moderate 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-1045-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.29 - 1.35 g/cc	0.0466 - 0.0488 lb/in ³	
Solids Content	>= 99 %	>= 99 %	
Viscosity	900000 cP	900000 cP	cone/plate
	@Shear Rate 1.00 1/s, Temperature 40.0 °C	@Shear Rate 1.00 1/s, Temperature 104 °F	
	2.50e+6 cP	2.50e+6 cP	cone/plate
	@Shear Rate 1.00 1/s, Temperature 23.0 °C	@Shear Rate 1.00 1/s, Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	30.0 MPa	4350 psi	ISO 527-1
Elongation at Break	3.5 %	3.5 %	ISO 527-1
Modulus of Elasticity	2.50 GPa	363 ksi	ISO 527-1
Adhesive Bond Strength	13.6 MPa	1970 psi	Lap Shear (25 x 10 x 0.2 mm) (CRS St 1203); EN 1465
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	20.9 MPa	3030 psi	Lap Shear (25 x 10 x 0.2 mm) (CRS St 1203); EN 1465
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Peel Strength	3.40 kN/m	19.4 pli	T-Peel (CRS St 1203, 0.5mm)
	7.00 kN/m	39.9 pli	

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

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 180 °C	@Temperature 356 °F	

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