

Dow BETAMATE™ XW 1185 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

BETAMATE™ XW 1185 is a one component heat curing Epoxy paste adhesive. The material is readily pumped at ambient temperatures. It shows excellent adhesion to automotive steel and aluminum, is resistant to degradation and to substrate corrosion on environmental aging. The product is compatible with electro-coat paint process. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-BETAMATE-XW-1185-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.28 - 1.34 g/cc	0.0462 - 0.0484 lb/in³	
Solids Content	>= 99 %	>= 99 %	
Viscosity	350000 cP	350000 cP	
	@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	13.0 MPa	1890 psi	ISO 527-1
Elongation at Break	11 %	11 %	ISO 527-1
Modulus of Elasticity	0.560 GPa	81.2 ksi	ISO 527-1
Adhesive Bond Strength	13.8 MPa	2000 psi	Lap Shear (CRS St 1203); EN 1465
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	15.9 MPa	2310 psi	Lap Shear (CRS St 1203); EN 1465
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Peel Strength	3.30 kN/m	18.8 pli	T-Peel (CRS St 1203, 0.5mm)
	8.00 kN/m	45.6 pli	Impact Peel

Thermal Properties	Metric	English	Comments
Flash Point	>= 100 °C	>= 212 °F	

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

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