

Dow BETAMATE™ 5103-2 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

BETAMATE™ 5103-2 is a one component heat curing Epoxy paste adhesive. The material is readily pumped at ambient temperatures. It shows excellent adhesion to automotive steel, including coated steels, is resistant to degradation and to substrate corrosion on environmental aging. The product is precurable to induction and compatible with electro-coat paint process. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-BETAMATE-5103-2-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.45 - 1.51 g/cc	0.0524 - 0.0546 lb/in³	
Solids Content	>= 98 %	>= 98 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	51.0 MPa	7400 psi	DIN 53 504
Elongation at Break	1.3 %	1.3 %	DIN 53 504
Modulus of Elasticity	6.60 GPa	957 ksi	DIN 53 504
Adhesive Bond Strength	15.0 MPa	2180 psi	Lap Shear (CRS St 1203); EN 1465
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	20.0 MPa	2900 psi	Lap Shear (CRS St 1203); EN 1465
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Peel Strength	2.00 kN/m	11.4 pli	T-Peel (CRS St 1203, 0.5mm)
	3.40 kN/m	19.4 pli	Impact Peel

Thermal Properties	Metric	English	Comments
Flash Point	245 °C	473 °F	

Processing Properties	Metric	English	Comments
Extrusion Rate	78.0 g/min	78.0 g/min	3 bar, 3mm aperture
Cure Time	30.0 min	0.500 hour	
	@Temperature 180 °C	@Temperature 356 °F	

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