

Uniseal BETABRACE™ 85001 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

BETABRACE™ 85001 is a composite used for reinforcing sheet metal. It is composed of a moderate temperature curing tacky polymer, woven glass fabric, and release paper. BETABRACE™ 85001 provides excellent adhesion to primed metal and also adheres to oily galvanized and cold rolled steel without a primer. BETABRACE™ 85001 can be supplied in many different shapes and thicknesses for specific reinforcement applications. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Uniseal-BETABRACE-85001-Epoxy.php

Physical Properties	Metric	English	Comments
Density	0.752 g/cc	0.0272 lb/in ³	Polymer Cured Physical Property

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	1.47 GPa	213 ksi	Polymer Cured Physical Property
Poissons Ratio	0.11	0.11	Polymer Cured Physical Property
Shear Modulus	0.662 GPa	96.0 ksi	Calculated

Thermal Properties	Metric	English	Comments
Flash Point	>= 204 °C	>= 400 °F	

Processing Properties	Metric	English	Comments
Cure Time	7.00 min	0.117 hour	
	@Temperature 160 °C	@Temperature 320 °F	
	30.0 min	0.500 hour	
	@Temperature 130 °C	@Temperature 266 °F	

Descriptive Properties	Value	Comments
Flexural Reinforcement Force N	29	2mm deflection; 1.3mm thick; After 500 hrs @ 200°F
	32	2mm deflection; 1.9mm thick; After 500 hrs @ 200°F
	37	2mm deflection; 1.3mm thick; After 14 days @ 190°F
	37	2mm deflection; 1.3mm thick; After 500 hrs @ 100°F & 100% RH
	38	2mm deflection; 1.3mm thick; Initial

Descriptive Properties	Value	Comments
	57	2mm deflection; 1.9mm thick; Initial
	57	2mm deflection; 1.9mm thick; After 14 days @ 190°F
Max Load N	180	1.3mm thick; 21mm max deflection
	255	1.9mm thick; 18mm max deflection

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