Fibre Glast 88 / 87 General Purpose Epoxy Resin and Hardener (discontinued **)

Category : Polymer , Thermoset , Epoxy , Epoxy, Cast, Unreinforced

Material Notes:

Description:#88 Epoxy Resin is a 100% reactive low viscosity liquid bisphenol-A based epoxy resin diluted with Alkyl glycidyl ether. This resin is specially designed for applications requiring low viscosity, minimum odor and good color. It is designed to be cured with #87 Epoxy Hardener. #87 Epoxy Hardener is a very reactive modified aliphatic amine edduct, developed for applications where relatively short cure periods at room temperature are required. Compositions based on #88 Epoxy Resin and #87 Epoxy Cure readily at room temperature. The pot life of such compositions is highly dependent on the volume of the mixture, temperature, amount and type of filler loading, and, to a lesser extent, the presence of a reactive diluent.Properties listed determined on 1/8" thick test specimens at 25°C for 16 hours followed by a pot cure of 2 hours at 100°C.ApplicationsAdhesives, decoupage systems, thin-set terrazzo flooring and industrial flooring, epoxy crack injection systems, exposed aggregate wall matrix, wet lay-up laminates, high solids/low VOC high performance architectural coatings.Information provided by Fibre Glast Developments Corporation.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Fibre-Glast-88-87-General-Purpose-Epoxy-Resin-and-Hardener-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Water Absorption	0.10 %	0.10 %	Percent weight gain after 24 hours immersion at 25°C
	0.10 %	0.10 %	Percent weight loss after 24 hours at 150°C
Viscosity	10000 cP	10000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	
Tensile Strength at Break	75.8 MPa	11000 psi	
Elongation at Break	3.8 %	3.8 %	
Flexural Strength	131 MPa	19000 psi	
Flexural Modulus	3.79 GPa	550 ksi	Initial flexural modulus
Compressive Yield Strength	111 MPa	16100 psi	
Izod Impact, Notched	0.246 J/cm	0.460 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	99.0 °C	210 °F	Deflection Temp; Load not specified

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+10 ohm-cm @Temperature 130 °C	6.00e+10 ohm-cm @Temperature 266 °F	
	8.00e+12 ohm-cm @Temperature 93.0 °C	8.00e+12 ohm-cm @Temperature 199 °F	
	1.00e+15 ohm-cm @Temperature 66.0 °C	1.00e+15 ohm-cm @Temperature 151 °F	
	2.80e+16 ohm-cm @Temperature 25.0 °C	2.80e+16 ohm-cm @Temperature 77.0 °F	
Dielectric Constant	4.19	4.19	
Dissipation Factor	0.026 @Frequency 1e+7 Hz	0.026 @Frequency 1e+7 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 - 480 min	4.00 - 8.00 hour	Mixture reaches handling strength in 4 to 8 hours.
	5760 - 10080 min	96.0 - 168.0 hour	For full cure. Maximum high temperature properties are obtained with a post cure of about 2 hours at 93°C to 121°C.
Pot Life	15.0 min @Temperature 25.0 °C	15.0 min @Temperature 77.0 °F	0.25 lb

Descriptive Properties	Value	Comments
Maximum Exotherm	>204°C	25 grams, 1 inch thick, at ambient temperature of 25°C and a gel time of 15 minutes.
Mix Ratio	100:20	Resin:Hardener by Weight

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