

Fibre Glast 2000 / 2020 System 2000 Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler

Material Notes:

System 2000 Epoxy Resin is a low viscosity, light amber laminating resin that is designed for fabricating parts and other demanding structural applications. Use this system to maximize the physical properties of carbon fiber, Kevlar®®, and glass laminates! Test results have proven superiority over other room temperature epoxies. Its low viscosity and great handling characteristics make it a favorite in the shop too! Three high performance hardener systems are available for the System 2000 resin. 20 minute, 60 minute, and 120 minute pot life versions are all options. This added variety allows the fabricator to select the system best suited to the size, complexity or time-frame of the project. Simple parts which need to be demolded quickly should use the 20 minute hardener. Larger and more complex parts can use either of the other hardeners. Vacuum bagging applications would typically warrant the longest 2 hour working time. As with any epoxy system, adhere to the proper mix ratios and maintain an adequate curing temperature of at least 70°F. The cure time will be cut in half for every 10°F that the temperature is raised above 70°F. The short 20 minute pot life of the 2020 Epoxy Hardener is quite versatile. Use for repairs, simple fabrications, or those parts requiring a quick demold time. Information provided by Fibre Glast Developments Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fibre-Glast-2000-2020-System-2000-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.12 - 1.13 g/cc	0.0405 - 0.0408 lb/in ³	
Viscosity	950 - 975 cP	950 - 975 cP	ASTM D2293

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	Cured; ASTM D2240
Tensile Strength at Break	312.51 MPa	45326 psi	Property derived with 10 Ply Laminate, hand Lay-up, Style 181 Glass Fabric, 55% Glass Content.; ASTM D638
Elongation at Break	1.93 %	1.93 %	Property derived with 10 Ply Laminate, hand Lay-up, Style 181 Glass Fabric, 55% Glass Content.; ASTM D638
Tensile Modulus	17.4 GPa	2530 ksi	Property derived with 10 Ply Laminate, hand Lay-up, Style 181 Glass Fabric, 55% Glass Content.
Flexural Strength	450.28 MPa	65308 psi	Property derived with 10 Ply Laminate, hand Lay-up, Style 181 Glass Fabric, 55% Glass Content.; ASTM D790
Flexural Modulus	19.5 GPa	2830 ksi	Property derived with 10 Ply Laminate, hand Lay-up, Style 181 Glass Fabric, 55% Glass Content.; ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	67.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 37.8 - 65.6 $\text{Å}^\circ\text{C}$	@Temperature 100 - 150 $\text{Å}^\circ\text{F}$	
Glass Transition Temp, Tg	82.2 $\text{Å}^\circ\text{C}$	180 $\text{Å}^\circ\text{F}$	

Processing Properties	Metric	English	Comments
Pot Life	20.0 min	20.0 min	4 fl. Oz.; ASTM D2471
	@Temperature 25.0 $\text{Å}^\circ\text{C}$	@Temperature 77.0 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
Color	Amber	
Mix Ratio	100:23	Resin:Hardener by Weight
	4.3:1	Resin:Hardener by Volume

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