

Hexcel® HexPly® 922-1 180°C Curing Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

HexPly® 922-1 is a structural epoxy resin for general industrial applications and aerospace applications. HexPly® 922-1 has an exceptionally good hot/wet performance and a very high glass temperature with cure cycle versatility, low viscosity and high flow. HexPly® 922-1 can be processed using a wide range of techniques. The HexPly® 922-1 family is available in fabrics and UD tapes. Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-922-1-180C-Curing-Epoxy-Matrix.php

Physical Properties	Metric	English	Comments
Density	1.265 g/cc	0.04570 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	56.0 MPa	8120 psi	ISO R527 type 1
Elongation at Yield	1.7 %	1.7 %	ISO R527 type 1
Tensile Modulus	4.05 GPa	587 ksi	ISO R527 type 1
Flexural Yield Strength	129 MPa	18700 psi	ISO 178
Flexural Modulus	3.44 GPa	499 ksi	ISO 178
Poissons Ratio	0.384	0.384	ISO R527 type 1
Fracture Toughness	0.490 MPa-m ^{1/2}	0.446 ksi-in ^{1/2}	
Shear Modulus	1.46 GPa	212 ksi	Calculated
Toughness	51.0 J	37.6 ft-lb	Per square meter

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	190 - 220 °C	374 - 428 °F	DMTA

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