

Hexcel® HexPly® 914 175°C Curing Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

HexPly® 914 is a highly successful modified epoxy matrix which is used extensively in high temperature resistant primary aircraft structures. The controlled melt viscosity and excellent matrix rheology of 914 permits a wide range of processing conditions for high quality components. Features: High melt viscosity giving easy processing characteristics, Tolerant to a wide variation of processing conditions, Latitude for low to high pressure laminating or moulding processes, Medium tack level giving excellent drape characteristics, Good shelf life

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-914-175C-Curing-Epoxy-Matrix.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.7 MPa	6920 psi	ISO R527 type 1
Elongation at Yield	1.5 %	1.5 %	ISO R527 type 1
Tensile Modulus	3.90 GPa	566 ksi	ISO R527 type 1
Compressive Yield Strength	180 MPa	26100 psi	ISO 604
Poissons Ratio	0.41	0.41	ISO R527 type 1
Fracture Toughness	0.700 MPa-m ^{1/2}	0.637 ksi-in ^{1/2}	
Shear Modulus	1.40 GPa	203 ksi	ISO R527 type 1
Toughness	103 J	76.0 ft-lb	Per square meter

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

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month @Temperature -18.0 °C	12.0 Month @Temperature -0.400 °F	

Descriptive Properties	Value	Comments
Tack Life (days)	60	

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