

Hexcel® HexPly® 916 120°C Curing Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

HexPly® 916 is a self-extinguishing modified epoxy matrix system with very high self adhesive properties. It is an ideal system for single shot honeycomb sandwich manufacture, with good drape characteristics. HexPly® 916 exhibits excellent environmental resistance, and good service temperature capability.HexPly® 916 prepregs are only available in fabric form.Features: Self-extinguishing, High strength retention to 120°C, Excellent adhesion to honeycomb, Suitable for a range of cure pressure (0.8 to 10 bar), Tough matrix system, Low tack

Order this product through the following link:
http://www.lookpolymers.com/polymer_Hexcel-HexPly-916-120C-Curing-Epoxy-Matrix.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in³	Cured

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO R527 type 1
Elongation at Yield	1.4 %	1.4 %	ISO R527 type 1
	10.3 %	10.3 %	Compression Strain; ISO 604
Tensile Modulus	4.17 GPa	605 ksi	ISO R527 type 1
Flexural Yield Strength	92.0 MPa	13300 psi	ISO 178
Flexural Modulus	3.78 GPa	548 ksi	ISO 178
Compressive Yield Strength	151.7 MPa	22000 psi	ISO 604
Shear Modulus	1.52 GPa	220 ksi	ISO R527 type 1

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	145 °C	293 °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)	30	

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