

Hexcel® HexPly® F593 Epoxy Resin

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

HexPly® F593 is a modified 350°F (177°C) curing epoxy system with very low flow for carbon fabric and tape applications that provides excellent laminate and honeycomb sandwich properties. As a low flow resin, HexPly® F593 lends itself to net resin, zero bleed applications. HexPly® F593's adhesive properties allow for the elimination of adhesive layers in co-curing sandwich structures. HexPly® F593 low flow minimizes sandwich part porosity. Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F593-Epoxy-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	
Volatiles	3.92 %	3.92 %	After 30 min at 177°C
Moisture Absorption at Equilibrium	4.2 %	4.2 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.4 MPa	8760 psi	
Elongation at Yield	2.0 %	2.0 %	
Tensile Modulus	2.96 GPa	429 ksi	
Poissons Ratio	0.35	0.35	
Fracture Toughness	1.22 MPa-m ^{1/2}	1.11 ksi-in ^{1/2}	
Shear Modulus	1.10 GPa	160 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 µm/m-°C	30.0 µin/in-°F	
Glass Transition Temp, Tg	131 °C	268 °F	Wet
	172 °C	342 °F	Dry

Processing Properties	Metric	English	Comments
Gel Time	9.00 - 17.0 min	9.00 - 17.0 min	
	@Temperature 177 °C	@Temperature 351 °F	

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