

Hexcel® HexPly® F155 Epoxy Resin

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

HexPly® F155 is an advanced modified epoxy formulation designed for autoclave curing to offer very high laminate strengths, coupled with increased fracture toughness and adhesive properties. HexPly® F155 is a controlled flow epoxy resin for lamination and co-curing at 250°F (121°C) cure. HexPly® F155 will pass MIL-R-9300, co-cure as a honeycomb facing, and bond metal to metal. Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F155-Epoxy-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.335 g/cc	1.335 g/cc	
Moisture Absorption at Equilibrium	9.4 %	9.4 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	
Elongation at Yield	5.2 %	5.2 %	
Tensile Modulus	3.24 GPa	470 ksi	
Fracture Toughness	1.65 MPa-m ^{1/2}	1.50 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	52.7 µm/m-°C	29.3 µin/in-°F	
Glass Transition Temp, Tg	121 °C	250 °F	Dry

Processing Properties	Metric	English	Comments
Gel Time	4.00 - 10.0 min	4.00 - 10.0 min	
	@Temperature 121 °C	@Temperature 250 °F	

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