

Hexcel® HexPly® 954-2A Curing Cyanate Resin

Category : Polymer , Thermoset , Epoxy

Material Notes:

HexPly® 954-2A is a 350°F (177°C) curing toughened cyanate resin with low moisture absorption, and excellent microcracking resistance. HexPly® 954-2A is formulated for autoclave or press molding. Recommended curing is two hours at 350°F (177°C). The recommended lay-up procedure is HSP-L3. The recommended cure procedure is HSP-C1 or HSP-C3. Typical applications for HexPly® 954-2A include primary and secondary aircraft structure, space structures, cryogenic tanks, or any application where impact resistance, light weight and excellent dielectric properties are required. HexPly® 954-2A can be impregnated via hot melt or solution techniques on all available fibers and fabrics. Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-954-2A-Curing-Cyanate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	69.0 MPa	10000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	2.59 %	2.59 %	
Tensile Modulus	3.00 GPa	435 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	82.0 MPa	11900 psi	Wet (Immersion at 170°F for 7 days)
	@Temperature 163 °C	@Temperature 325 °F	
	87.0 MPa	12600 psi	
	@Temperature 177 °C	@Temperature 351 °F	
	93.0 MPa	13500 psi	
	@Temperature 163 °C	@Temperature 325 °F	
	117 MPa	17000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	2.30 GPa	334 ksi	Wet (Immersion at 170°F for 7 days)
	@Temperature 163 °C	@Temperature 325 °F	
	2.40 GPa	348 ksi	
	@Temperature 163 °C	@Temperature 325 °F	

Mechanical Properties	2.40 GPa Metric	348 ksi English	Comments
	@Temperature 177 °C	@Temperature 351 °F	
	3.00 GPa	435 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Poissons Ratio	0.38	0.38	
Shear Modulus	1.09 GPa	158 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	50.8 µm/m-°C	28.2 µin/in-°F	
Glass Transition Temp, Tg	191 °C	376 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.92	2.92	
	2.92	2.92	
	3.13	3.13	Moisture Conditioned: 71°C and 95% RH for 140 days; Room Temperature; ASTM D2520
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
	3.29	3.29	Moisture Conditioned: 71°C and 95% RH for 140 days; ASTM D2520
	@Frequency 1.00e+10 Hz, Temperature 163 °C	@Frequency 1.00e+10 Hz, Temperature 325 °F	
Dielectric Loss Index	0.0080	0.0080	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.010	0.010	
	@Temperature 163 °C	@Temperature 325 °F	
	0.010	0.010	Moisture Conditioned: 71°C and 95% RH for 140 days; Room Temperature; ASTM D2520
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
	0.020	0.020	Moisture Conditioned: 71°C and 95% RH for 140 days; ASTM D2520
	@Frequency 1.00e+10 Hz, Temperature 163 °C	@Frequency 1.00e+10 Hz, Temperature 325 °F	

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