

Hexcel® HexPly® 922-1/35%/G926 180°C Curing Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

5H satin/370g/m2 carbon fabric: FVC=60%Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-922-135G926-180C-Curing-Epoxy-Matrix.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	718 MPa	104000 psi	Material as cured; RT
	786 MPa	114000 psi	After ageing at 70°C / 95% RH; RT
	677 MPa	98200 psi	After ageing at 70°C / 95% RH
	@Temperature 175 °C	@Temperature 347 °F	
Tensile Modulus	774 MPa	112000 psi	Material as cured
	@Temperature 175 °C	@Temperature 347 °F	
Tensile Modulus	67.0 GPa	9720 ksi	Material as cured; RT
	77.0 GPa	11200 ksi	After ageing at 70°C / 95% RH; RT
	64.0 GPa	9280 ksi	After ageing at 70°C / 95% RH
	@Temperature 175 °C	@Temperature 347 °F	
Flexural Yield Strength	70.0 GPa	10200 ksi	Material as cured
	@Temperature 175 °C	@Temperature 347 °F	
Flexural Yield Strength	1038 MPa	150500 psi	After ageing at 70°C / 95% RH; RT
	1079 MPa	156500 psi	Material as cured; RT
	244 MPa	35400 psi	After ageing at 70°C / 95% RH
	@Temperature 175 °C	@Temperature 347 °F	
Flexural Modulus	761 MPa	110000 psi	Material as cured
	@Temperature 175 °C	@Temperature 347 °F	
Flexural Modulus	57.0 GPa	8270 ksi	After ageing at 70°C / 95% RH; RT
	60.0 GPa	8700 ksi	Material as cured; RT
	42.0 GPa	6090 ksi	After ageing at 70°C / 95% RH
	@Temperature 175 °C	@Temperature 347 °F	
	56.0 GPa	8120 ksi	Material as cured

Mechanical Properties	@Temperature 175 °C Metric	@Temperature 347 °F English	Comments
Compressive Yield Strength	605 MPa	87700 psi	After ageing at 70°C / 95% RH; RT
	667 MPa	96700 psi	Material as cured; RT
	218 MPa	31600 psi	After ageing at 70°C / 95% RH
	@Temperature 175 °C	@Temperature 347 °F	
	493 MPa	71500 psi	Material as cured
	@Temperature 175 °C	@Temperature 347 °F	
Compressive Modulus	65.0 GPa	9430 ksi	After ageing at 70°C / 95% RH; RT
	66.0 GPa	9570 ksi	Material as cured; RT
	52.0 GPa	7540 ksi	After ageing at 70°C / 95% RH
	@Temperature 175 °C	@Temperature 347 °F	
	57.0 GPa	8270 ksi	Material as cured
	@Temperature 175 °C	@Temperature 347 °F	
Shear Modulus	5.00 GPa	725 ksi	In-Plane; After ageing at 70°C / 95% RH; RT
	5.60 GPa	812 ksi	In-Plane; Material as cured; RT
Shear Strength	73.0 MPa	10600 psi	IL; Material as cured; RT
	79.0 MPa	11500 psi	IL; After ageing at 70°C / 95% RH; RT
	90.0 MPa	13100 psi	In-Plane; After ageing at 70°C / 95% RH; RT
	98.0 MPa	14200 psi	
	20.0 MPa	2900 psi	IL; After ageing at 70°C / 95% RH
	@Temperature 175 °C	@Temperature 347 °F	
	53.0 MPa	7690 psi	IL; Material as cured
	@Temperature 175 °C	@Temperature 347 °F	

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