

Hexcel® HexPly® M47 140°C Curing Epoxy Matrix, Unidirectional Carbon Prepreg IM2-C Fibre

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Epoxy , Epoxy/Carbon Fiber Composite

Material Notes:

1947 - 38% resin weight with IM2-C 53% fiber volume Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-M47-140C-Curing-Epoxy-Matrix-Unidirectional-Carbon-Prepreg-IM2-C-Fibre.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2326 MPa	337400 psi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	153 GPa	22200 ksi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	44.0 MPa	6380 psi	0° Interlaminar Shear, Conditioning: 60°C-90%RH; ASTM D2344
	@Temperature 60.0 °C	@Temperature 140 °F	
	63.0 MPa	9140 psi	0° Interlaminar Shear, Conditioning: 23°C; ASTM D2344
	@Temperature 90.0 °C	@Temperature 194 °F	
	92.0 MPa	13300 psi	0° Interlaminar Shear, Conditioning: 23°C; ASTM D2344
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -18.0 °C	@Temperature -0.400 °F	

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