

## Hexcel® HexPly® 924 180°C Curing Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

### Material Notes:

HexPly® 924 is a controlled flow epoxy matrix developed for the fabrication of high temperature resistant primary structures. When cured, HexPly® 924 becomes a tough composite with high impact resistance and damage tolerance. It is particularly suitable for aircraft primary structures and elevated temperature applications such as performance cars. HexPly® 924 is best suited to autoclave or press cure to obtain optimum mechanical performance from the cured composite. Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-924-180C-Curing-Epoxy-Matrix.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-924-180C-Curing-Epoxy-Matrix.php)

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	Cured

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	ISO R527 type 1
Elongation at Yield	2.4 %	2.4 %	ISO R527 type 1
	13 %	13 %	Compression Strain; ISO 604
Tensile Modulus	3.80 GPa	551 ksi	ISO R527 type 1
Flexural Yield Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	3.12 GPa	453 ksi	ISO 178
Compressive Yield Strength	175 MPa	25400 psi	ISO 604
Poissons Ratio	0.41	0.41	ISO R527 type 1
Fracture Toughness	0.830 MPa-m <sup>1/2</sup>	0.755 ksi-in <sup>1/2</sup>	
Shear Modulus	1.34 GPa	194 ksi	ISO R527 type 1
Toughness	150 J	111 ft-lb	Per square meter

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	190 °C	374 °F	DMTA
Shrinkage	1.6 %	1.6 %	

Processing Properties	Metric	English	Comments
Shelf Life	>= 12.0 Month	>= 12.0 Month	@Temperature -0.400

Processing Properties	Metric	@Temperature -18.0 °C °F	English	Comments
Descriptive Properties		Value	Comments	
Tack Life (days)		21		

## Contact Songhan Plastic Technology Co.,Ltd.

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