

## Hexcel® HexPly® 920 125°C Curing Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

### Material Notes:

HexPly® 920 is a very tough advanced resin matrix, ideally suited to the single-shot production of honeycomb sandwich structures and the manufacture of solid laminates. It is highly tolerant of a variety of production techniques and equipments, making it easy to process. The high toughness of HexPly® 920 makes it ideal for industrial applications and performance cars. It is available preimpregnated into carbon, glass or aramid fibers. Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-920-125C-Curing-Epoxy-Matrix.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-920-125C-Curing-Epoxy-Matrix.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	Cured

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.9 MPa	5060 psi	ISO R527 type 1
Elongation at Yield	7.4 %	7.4 %	Compression Strain; ISO 604
	8.41 %	8.41 %	ISO R527 type 1
Tensile Modulus	3.76 GPa	545 ksi	ISO R527 type 1
Flexural Modulus	3.51 GPa	509 ksi	ISO 178
Compressive Yield Strength	290 MPa	42100 psi	ISO 604
Poissons Ratio	0.39	0.39	ISO R527 type 1
Fracture Toughness	1.55 MPa-m <sup>1/2</sup>	1.41 ksi-in <sup>1/2</sup>	
Shear Modulus	1.35 GPa	196 ksi	Calculated
Toughness	541 J	399 ft-lb	Per square meter

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	107 °C	225 °F	DMTA
Shrinkage	1.59 %	1.59 %	

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

Descriptive Properties	Value	Comments
Tack Life (days)	30	

## Contact Songhan Plastic Technology Co.,Ltd.

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