

## Hexcel® HexPly® 171/174/176 120°C Curing Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

**Material Notes:**

The HexPly® 174 family is a range of flexible 120°C curing matrix systems for a wide variety of industrial applications and is ideally matched to the following processes: shrink wrap tape, vacuum bag, press or autoclave manufacturing methods. HexPly® 174 comprises a modified epoxy resin pre-impregnated into carbon, glass or aramid fibers, It cures at 120°C to form a tough durable fiber-reinforced composite. Three versions of HexPly® 174 are available: HexPly® 171 - fabric reinforcement HexPly® 174 - UD tape and single tow reinforcement HexPly® 176 - fabric reinforcement, improved surface finish Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-171174176-120C-Curing-Epoxy-Matrix.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-171174176-120C-Curing-Epoxy-Matrix.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1675-1975

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	ISO R527
Elongation at Yield	2.6 %	2.6 %	ISO R527
Tensile Modulus	2.80 GPa	406 ksi	ISO R527
Toughness	100 J	73.8 ft-lb	Per square meter; ASTM D399

Thermal Properties	Metric	English	Comments
CTE, linear	67.0 µm/m-°C	37.2 µin/in-°F	
Glass Transition Temp, Tg	110 - 120 °C	230 - 248 °F	DAN 432

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

## Contact Songhan Plastic Technology Co.,Ltd.

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