

RedEye On Demand Clear PolyJet™ FC720 for Rapid Prototyping

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic

Material Notes:

Clear PolyJet Resin (FC720) is a photopolymer resin designed for precise jetting in super fine layers by PolyJet™ Technology, often used in rapid prototyping. Our Clear PolyJet Resin material offers the best surface finish. These parts are built at a layer thickness of 16 microns (0.0006 inch or 0.01524mm) and can produce parts with fine feature detail. Applications Clear PolyJet Resin (FC720) works well for prototypes that require smooth surface finish and high feature detail. Parts from this material can absorb paint or dye, be chrome plated, used as a master for silicone molds and have been used in investment casting. Clear PolyJet parts will have a semi-translucent appearance, which can be enhanced with sanding and buffing. Typical industries included toys, foot wear, architecture and any industry where feature detail and surface finish are required.

Order this product through the following link:

http://www.lookpolymers.com/polymer_RedEye-On-Demand-Clear-PolyJet-FC720-for-Rapid-Prototyping.php

Physical Properties	Metric	English	Comments
Base Resin Density	1.092 g/cc	0.03945 lb/in ³	
Ash	<= 0.010 %	<= 0.010 %	at 1000°C

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	81	81	
Tensile Strength, Yield	42.3 MPa	6140 psi	ASTM D638
Elongation at Break	15 - 25 %	15 - 25 %	ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	ASTM D638
Flexural Yield Strength	70.6 MPa	10200 psi	ASTM D790
Flexural Modulus	1.978 GPa	286.9 ksi	ASTM D790
Compressive Strength	69.4 MPa	10100 psi	ASTM D695
Izod Impact, Notched	0.250 - 0.380 J/cm	0.468 - 0.712 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	29.9 - 39.3 μm/m-°C	16.6 - 21.8 μin/in-°F	
	@Temperature 30.0 - 35.0 °C	@Temperature 86.0 - 95.0 °F	
	51.3 - 70.3 μm/m-°C	28.5 - 39.1 μin/in-°F	
	@Temperature 40.0 - 70.0 °C	@Temperature 104 - 158 °F	

Thermal Properties	Metric	English	Comments
	95.9 - 112.9 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 75.0 - 90.0 °C	53.3 - 62.72 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 167 - 194 °F	
	118.2 - 126.2 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 95.0 - 110 °C	65.67 - 70.11 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 203 - 230 °F	
Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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