

## RedEye On Demand VeroBlack PolyJet™ FC870 for Rapid Prototyping

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic

### Material Notes:

Vero PolyJet Resin (VeroBlue™ FC840 & VeroBlack™ FC870) is a photopolymer resin designed for precise jetting in super fine layers by PolyJet™ Technology, often used in rapid prototyping. Our Vero PolyJet Resin materials offer great surface finish with improved mechanical properties as compared to our Clear PolyJet Resin (FC720). 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 Vero PolyJet Resins work well for prototypes that require smooth surface finish and high feature detail. These resins offer improvements as compared to our Clear PolyJet Resin such as improved mechanical properties, enhanced visualization of details and edges, improved humidity resistance and better flexural strength. Parts from this material can be chrome plated or used as a master for silicone molds. 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-VeroBlack-PolyJet-FC870-for-Rapid-Prototyping.php](http://www.lookpolymers.com/polymer_RedEye-On-Demand-VeroBlack-PolyJet-FC870-for-Rapid-Prototyping.php)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	81	81	
Hardness, Shore D	83	83	
Tensile Strength, Yield	49.9 MPa	7240 psi	ASTM D638
Elongation at Break	15 - 25 %	15 - 25 %	ASTM D638
Tensile Modulus	2.495 GPa	361.9 ksi	ASTM D638
Flexural Yield Strength	74.6 MPa	10800 psi	ASTM D790
Flexural Modulus	2.137 GPa	310.0 ksi	ASTM D790
Izod Impact, Notched	0.375 J/cm	0.703 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	49.0 °C	120 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ASTM D648
Glass Transition Temp, Tg	58.0 °C	136 °F	DMA (SYSS)

## Contact Songhan Plastic Technology Co.,Ltd.

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