

Proto3000 Objet VeroBlack FullCure870 Rigid Opaque Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Objet's FullCure® Materials family of proprietary acrylic-based photopolymer materials enables Objet users to create highly accurate, finely detailed 3D models and parts for a wide range of Rapid Prototyping and Rapid Manufacturing applications. Vero Family: Opaque rigid materials offering toughness, dimensional stability and great detail visualization
Fields of Use: Consumer electronics, Toy, Telecommunications, Computers and Architecture fields, Jewelry applications
Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-Objet-VeroBlack-FullCure870-Rigid-Opaque-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.17 - 1.18 g/cc	0.0423 - 0.0426 lb/in ³	Polymerized; ASTM D792
Water Absorption	1.1 - 1.5 % @Time 86400 sec	1.1 - 1.5 % @Time 24.0 hour	ASTM D570-98
Ash	0.010 - 0.020 %	0.010 - 0.020 %	USP281

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	73 - 76	73 - 76	
Hardness, Shore D	83 - 86	83 - 86	
Tensile Strength at Break	50.0 - 65.0 MPa	7250 - 9430 psi	ASTM D638-03
Elongation at Break	10 - 25 %	10 - 25 %	ASTM D638-05
Modulus of Elasticity	2.00 - 3.00 GPa	290 - 435 ksi	ASTM D638-04
Flexural Strength	75.0 - 110 MPa	10900 - 16000 psi	ASTM D790-03
Flexural Modulus	2.20 - 3.20 GPa	319 - 464 ksi	ASTM D790-04
Izod Impact, Notched	0.200 - 0.300 J/cm	0.375 - 0.562 ft-lb/in	ASTM D256-06

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	45.0 - 50.0 °C	113 - 122 °F	ASTM D648-06
Deflection Temperature at 1.8 MPa (264 psi)	45.0 - 50.0 °C	113 - 122 °F	ASTM D648-07
Glass Transition Temp, Tg	52.0 - 54.0 °C	126 - 129 °F	DMA, E

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