

Proto3000 Objet FullCure720 Transparent 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. General Purpose Family: Transparent - FullCure720 General-purpose transparent material, offering excellent properties including Tensile Strength, Flexural Strength and HDT Fields of Use: Consumer products, Toy, Telecommunications, Computers and Architecture fields Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-Objet-FullCure720-Transparent-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.18 - 1.19 g/cc	0.0426 - 0.0430 lb/in³	Polymerized; ASTM D792
Water Absorption	1.5 - 2.2 % @Time 86400 sec	1.5 - 2.2 % @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	15 - 25 %	15 - 25 %	ASTM D638-05
Modulus of Elasticity	2.00 - 3.00 GPa	290 - 435 ksi	ASTM D638-04
Flexural Strength	80.0 - 110 MPa	11600 - 16000 psi	ASTM D790-03
Flexural Modulus	2.70 - 3.30 GPa	392 - 479 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	48.0 - 50.0 °C	118 - 122 °F	DMA, E

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	Transparent; thickness not specified

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