

Proto3000 Objet DurusWhite FullCure430 Polypropylene-like 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. Durus Family: DurusWhite, FullCure430 Polypropylene-like Material addressing a broad range of applications requiring polypropylene - like appearance, flexibility, strength and toughness. Fields of Use: Electrical, Aerospace, Computers, and Telecommunication for the prototyping design industries. Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-Objet-DurusWhite-FullCure430-Polypropylene-like-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.15 - 1.17 g/cc	0.0415 - 0.0423 lb/in ³	Polymerized; ASTM D792
Water Absorption	1.5 - 1.9 % @Time 86400 sec	1.5 - 1.9 % @Time 24.0 hour	ASTM D570-98
Ash	0.10 - 0.12 %	0.10 - 0.12 %	USP281

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74 - 78	74 - 78	
Tensile Strength at Break	20.0 - 30.0 MPa	2900 - 4350 psi	ASTM D638-03
Elongation at Break	40 - 50 %	40 - 50 %	ASTM D638-05
Modulus of Elasticity	1.00 - 1.20 GPa	145 - 174 ksi	ASTM D638-04
Flexural Strength	30.0 - 40.0 MPa	4350 - 5800 psi	ASTM D790-03
Flexural Modulus	1.20 - 1.60 GPa	174 - 232 ksi	ASTM D790-04
Izod Impact, Notched	0.400 - 0.500 J/cm	0.749 - 0.937 ft-lb/in	ASTM D256-06

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	37.0 - 42.0 °C	98.6 - 108 °F	ASTM D648-06
Deflection Temperature at 1.8 MPa (264 psi)	32.0 - 34.0 °C	89.6 - 93.2 °F	ASTM D648-07
Glass Transition Temp, Tg	35.0 - 37.0 °C	95.0 - 98.6 °F	DMA, E

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