

Proto3000 Objet VeroBlue FullCure840 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 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-VeroBlue-FullCure840-Rigid-Opaque-Prototyping-Polymer.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------|------------------------------------|------------------------|
| Density | 1.18 - 1.19 g/cc | 0.0426 - 0.0430 lb/in ³ | Polymerized; ASTM D792 |
| Water Absorption | 1.5 - 2.2 % @Time 86400 sec | 1.5 - 2.2 % @Time 24.0 hour | ASTM D570-98 |
| Ash | 0.21 - 0.22 % | 0.21 - 0.22 % | 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 - 60.0 MPa | 7250 - 8700 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 | 60.0 - 70.0 MPa | 8700 - 10200 psi | ASTM D790-03 |
| Flexural Modulus | 1.90 - 2.50 GPa | 276 - 363 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 |

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