

Proto3000 ABS-M30i Fused Deposition Modeling Polymer

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , ABS Polymer

Material Notes:

Description: ABS-M30i is a high strength material well suited for the medical, pharmaceutical and food packaging industries. Parts manufactured with ABS-M30i material are biocompatible (ISO 10993 certified) and can be gamma or EtO sterilized. When combined with Fortus 3D Production Systems, ABS-M30i gives you biocompatible Real Parts™ with excellent mechanical properties that are well suited for conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts. Available Colors: Ivory
Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-ABS-M30i-Fused-Deposition-Modeling-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109.5	109.5	ASTM D785
Tensile Strength at Break	36.0 MPa	5220 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
	52 %	52 %	Flexural Elongation; ASTM D790
Tensile Modulus	2.413 GPa	350.0 ksi	ASTM D638
Flexural Strength	61.0 MPa	8850 psi	Method 1, 0.05"/min; ASTM D790
Flexural Modulus	2.317 GPa	336.1 ksi	ASTM D790
Izod Impact, Notched	1.39 J/cm	2.60 ft-lb/in	Method A; ASTM D256
Izod Impact, Unnotched	2.83 J/cm	5.30 ft-lb/in	Method A; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	45.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E831
	@Temperature -40.0 - 100 °C	@Temperature -40.0 - 212 °F	
CTE, linear, Transverse to Flow	84.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	47.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E831
	@Temperature -40.0 - 100 °C	@Temperature -40.0 - 212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C @Thickness 0.125 mm	205 °F @Thickness 0.00492 in	unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 0.125 mm	@Thickness 0.00492 in	Unannealed, ASTM D648
Vicat Softening Point	99.0 °C	210 °F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	108 °C	226 °F	DAM (SSYS)
Flammability, UL94	HB @Thickness 0.850 mm	HB @Thickness 0.0335 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60112

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