Proto3000 ABS-M30 Fused Deposition Modeling Polymer

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

Material Notes:

Description: ABS-M30 is up to 25-70 percent stronger than standard Stratasys ABS and is an ideal material for conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts. ABS-M30 has greater tensile, impact, and ?exural strength than standard ABS. Layer bonding is signi?cantly stronger than that of standard ABS, for a more durable part. This results in more realistic functional tests and higher quality parts for end use. When combined with a Fortus 3D Production System, ABS-M30 gives you Real Parts that are stronger, smoother, and with better feature detail.Available Colors: Ivory, White, Black, Dark Grey, Red, and BlueInformation provided by Proto3000 for their protoyping engineering services.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Proto3000-ABS-M30-Fused-Deposition-Modeling-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	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 µm/m-°C @Temperature -40.0 - 100 °C	45.7 µin/in-°F @Temperature -40.0 - 212 °F	ASTM E831
CTE, linear, Transverse to Flow	84.6 µm/m-°C @Temperature -40.0 - 100 °C	47.0 µin/in-°F @Temperature -40.0 - 212 °F	ASTM E831
Deflection Temperature at 0.46 MPa	96.0 °C	205 °F	

Thermal Properties	Metric	English	Comments
(66 psi)	@Thickness 0.125 mm	@Thickness 0.00492 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C @Thickness 0.125 mm	180 °F @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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