

Proto3000 ABSi Fused Deposition Modeling Polymer

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

Material Notes:

Description: Stratasys ABSi is an ideal material for conceptual modeling, functional prototyping and direct digital manufacturing. Its strength is superior to standard Stratasys ABS, and the translucent nature of ABSi beneficial for monitoring material flow and light transmission, most commonly used for medical and automotive applications. ABSi gives you Real Parts™ that are visually unique, dimensionally accurate, durable and hold their shape over time. Available Colors: Translucent Natural, Translucent Amber and Translucent Red. Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength at Break	37.0 MPa	5370 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	4.4 %	4.4 %	ASTM D638
	<= 80 %	<= 80 %	Flexural Elongation; ASTM D790
Tensile Modulus	1.915 GPa	277.7 ksi	ASTM D638
Flexural Strength	62.0 MPa	8990 psi	Method 1, 0.05"/min; ASTM D790
Flexural Modulus	1.917 GPa	278.0 ksi	ASTM D790
Izod Impact, Notched	0.964 J/cm	1.81 ft-lb/in	Method A; ASTM D256
Izod Impact, Unnotched	1.911 J/cm	3.580 ft-lb/in	Method A; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	121 µm/m-°C	67.2 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	86.0 °C @Thickness 0.125 mm	187 °F @Thickness 0.00492 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C @Thickness 0.125 mm	163 °F @Thickness 0.00492 in	unannealed; ASTM D648
Glass Transition Temp, Tg	116 °C	241 °F	DAM (SSYS)

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