

3D Systems Accura® 60 Plastic for SLA® Systems

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Simulate the properties and appearance of polycarbonate. For use with solid-state stereolithography (SLA®) systems. Applications Tough functional prototypes Automotive design components Consumer electronics (cell phones etc.) Medical instruments, devices and labware Lighting components (lenses etc.) Fluid flow and visualization models Master patterns for urethane castings QuickCast™ patterns for investment casting Transparent assemblies Clear display models Concept and marketing models All information provided by 3D Systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3D-Systems-Accura-60-Plastic-for-SLA-Systems.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	Liquid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.21 g/cc	0.0437 lb/in ³	Solid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	150 - 180 cP	150 - 180 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength, Yield	58.0 - 68.0 MPa	8410 - 9860 psi	ASTM D638
Elongation at Break	5.0 - 13 %	5.0 - 13 %	ASTM D638
Tensile Modulus	2.69 - 3.10 GPa	390 - 450 ksi	ASTM D638
Flexural Strength	87.0 - 101 MPa	12600 - 14600 psi	ASTM D790
Flexural Modulus	2.70 - 3.00 GPa	392 - 435 ksi	ASTM D790
Izod Impact, Notched	0.150 - 0.250 J/cm	0.281 - 0.468 ft-lb/in	ASTM D256
Penetration	6.3	6.3	mils

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 µm/m-°C	39.4 µin/in-°F	T<Tg; ASTM E831-93
	@Temperature 0.000 - 40.0 °C	@Temperature 32.0 - 104 °F	
	153 µm/m-°C	85.0 µin/in-°F	

Thermal Properties	@Temperature 75.0 - 140 °C Metric	@Temperature 167 - 289 °F English	T>Tg: ASTM E831-93 Comments
Deflection Temperature at 0.46 MPa (66 psi)	53.0 - 55.0 °C	127 - 131 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	48.0 - 50.0 °C	118 - 122 °F	ASTM D648
Glass Transition Temp, Tg	58.0 °C	136 °F	DMA, E"

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
Appearance	Clear	
Critical Exposure (mJ/cm ²)	7.6	
Tested Build Styles	FAST™, EXACT™, and QuickCast™	

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