

3D Systems Accura® 10 Plastic for SLA® Systems

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Accura 10 "Nd" type material - for use with Viper SLA, and SLA 3500, 5000 and 7000 systems. Applications General use prototyping for many uses, including: Enclosures, covers and cases Cellular/mobile phones Automotive and aerospace design Computers and control displays Accurate master patterns for RTV/silicone molding QuickCast™ patterns for investment casting Models for fluid flow and visualization of internal structures All information provided by 3D Systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3D-Systems-Accura-10-Plastic-for-SLA-Systems.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in³	Liquid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.21 g/cc	0.0437 lb/in³	Solid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	485 cP	485 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	ASTM D2240
Tensile Strength, Yield	62.0 - 76.0 MPa	8990 - 11000 psi	ASTM D638
Elongation at Break	3.1 - 5.6 %	3.1 - 5.6 %	ASTM D638
Tensile Modulus	3.048 - 3.532 GPa	442.1 - 512.3 ksi	ASTM D638
Flexural Strength	89.0 - 115 MPa	12900 - 16700 psi	ASTM D790
Flexural Modulus	2.827 - 3.186 GPa	410.0 - 462.1 ksi	ASTM D790
Izod Impact, Notched	0.149 - 0.277 J/cm	0.279 - 0.519 ft-lb/in	ASTM D256
Penetration	6.3	6.3	mils; Viper/SLA 3500
	6.8	6.8	mils; SLA 7000
	6.9	6.9	mils; SLA 5000

Thermal Properties	Metric	English	Comments
CTE, linear	64.0 µm/m-°C	35.6 µin/in-°F	T<Tg; ASTM E831-93

Thermal Properties	Metric @Temperature 0.000 - 20.0 °C	English @Temperature 32.0 - 68.0 °F	Comments
	170 µm/m-°C	94.4 µin/in-°F	T>Tg; ASTM E831-93
	@Temperature 90.0 - 150 °C	@Temperature 194 - 302 °F	
Deflection Temperature at 0.46 MPa (66 psi)	58.0 °C	136 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ASTM D648
Glass Transition Temp, Tg	62.0 °C	144 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Clear amber	
Critical Exposure (mJ/cm²)	13.8	Viper/SLA 3500
	15.5	SLA 7000
	17.7	SLA 5000
Tested Build Styles	FAST™, EXACT HR, QuickCast™ and ThinLayer™	

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