

## 3D Systems Accura® 50 Plastic for SLA® Systems

Category : Polymer , Rapid Prototyping Polymer

### Material Notes:

Simulate the properties and appearance of molded ABS. For use with the Viper™ SLA® system, SLA 3500, SLA 5000 and SLA 7000 systems. Applications: Functional components for assemblies, mock-ups and test for many uses, including: Enclosures, covers and cases for consumer goods, Toys, Cellular/mobile telephones. Electronic components: connectors, interconnects, routing enclosures, etc. Automotive design elements: dash boards, air conditioning vents, etc. Accurate, durable master patterns for RTV or silicone molding. Limited snap-fits and assemblies. Simulate a molded part. Concept models. Marketing models. All information provided by 3D Systems.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3D-Systems-Accura-50-Plastic-for-SLA-Systems.php](http://www.lookpolymers.com/polymer_3D-Systems-Accura-50-Plastic-for-SLA-Systems.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	Liquid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.21 g/cc	0.0437 lb/in <sup>3</sup>	Solid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	600 cP	600 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength, Yield	48.0 - 50.0 MPa	6960 - 7250 psi	ASTM D638
Elongation at Break	5.3 - 15 %	5.3 - 15 %	ASTM D638
Tensile Modulus	2.48 - 2.69 GPa	360 - 390 ksi	ASTM D638
Flexural Strength	72.0 - 77.0 MPa	10400 - 11200 psi	ASTM D790
Flexural Modulus	2.21 - 2.34 GPa	321 - 339 ksi	ASTM D790
Izod Impact, Notched	0.165 - 0.281 J/cm	0.309 - 0.526 ft-lb/in	ASTM D256
Penetration	4.5	4.5	mils

Thermal Properties	Metric	English	Comments
CTE, linear	73.0 µm/m-°C	40.6 µin/in-°F	T<Tg; ASTM E831-93
	@Temperature 0.000 - 20.0 °C	@Temperature 32.0 - 68.0 °F	
	164 µm/m-°C	91.1 µin/in-°F	

Thermal Properties	Metric @ Temperature 90.0 - 150 °C	English @ Temperature 194 - 302 °F	Comments   E831-93
Deflection Temperature at 0.46 MPa (66 psi)	49.0 - 53.0 °C	120 - 127 °F	ASTM D648
	74.0 - 80.0 °C	165 - 176 °F	with 160°C thermal postcure; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	43.0 - 46.0 °C	109 - 115 °F	ASTM D648
Glass Transition Temp, Tg	62.0 °C	144 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Opaque natural or opaque grey	
Critical Exposure (mJ/cm <sup>2</sup> )	9	
Tested Build Styles	FAST™, EXACT™, Exact HR	

## Contact Songhan Plastic Technology Co.,Ltd.

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