

3D Systems Accura® 55 Plastic for SLA® Systems

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Simulate the properties and appearance of molded ABS. For use with solid-state stereolithography (SLA®) systems. Applications Automotive interior components Short-run production parts Electronic components Testing of functional assemblies Rigid and durable functional prototypes Concept and marketing models Accurate, durable master patterns for urethane casting All information provided by 3D Systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3D-Systems-Accura-55-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	
	1.20 g/cc	0.0434 lb/in ³	Solid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	155 - 185 cP	155 - 185 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Strength, Yield	63.0 - 68.0 MPa	9140 - 9860 psi	ASTM D638
Elongation at Break	5.0 - 8.0 %	5.0 - 8.0 %	ASTM D638
Tensile Modulus	3.20 - 3.38 GPa	464 - 490 ksi	ASTM D638
Flexural Strength	88.0 - 110 MPa	12800 - 16000 psi	ASTM D790
Flexural Modulus	2.69 - 3.24 GPa	390 - 470 ksi	ASTM D790
Izod Impact, Notched	0.120 - 0.220 J/cm	0.225 - 0.412 ft-lb/in	ASTM D256
Gardner Impact	1.10 J	0.811 ft-lb	ASTM D5420
Penetration	5.2	5.2	mils

Thermal Properties	Metric	English	Comments
CTE, linear	61.0 µm/m-°C	33.9 µin/in-°F	T<Tg; ASTM E831-93
	@Temperature 0.000 - 40.0 °C	@Temperature 32.0 - 104 °F	

Thermal Properties	163 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	90.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments T-Tg, ASTM E831 - 93
	@Temperature 75.0 - 140 $^\circ\text{C}$	@Temperature 167 - 284 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	55.0 - 58.0 $^\circ\text{C}$	131 - 136 $^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	51.0 - 53.0 $^\circ\text{C}$	124 - 127 $^\circ\text{F}$	ASTM D648
Glass Transition Temp, Tg	56.0 $^\circ\text{C}$	133 $^\circ\text{F}$	DMA, E"

Descriptive Properties	Value	Comments
Appearance	White	
Critical Exposure (mJ/cm^2)	7.4	
Tested Build Styles	FAST™, EXACT™, Exact HR	

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