

3D Systems Accura® 40 Plastic for SLA® Systems

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

40 Accura "Nd" type material - for use with Viper SLA, and SLA 3500, 5000 and 7000 systems. Applications High temperature testing: Automotive "under-the-hood" parts Intake manifolds Lighting components and accessories HVAC components Parts where additional assembly or machining operations may be required (self-tapping screws, drilling, etc.) Thin-wall enclosures Master patterns for RTV/silicone molding Wind-tunnel models Snap-fit assemblies Features Stiffness matches nylon 6:6 High heat resistance without brittleness Good durability Outstanding accuracy with minimal distortion Fully developed and tested build styles All information provided by 3D Systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3D-Systems-Accura-40-Plastic-for-SLA-Systems.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	Liquid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.19 g/cc	0.0430 lb/in ³	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	84	84	ASTM D2240
Tensile Strength, Yield	57.0 - 61.0 MPa	8270 - 8850 psi	ASTM D638
Elongation at Break	4.8 - 5.1 %	4.8 - 5.1 %	ASTM D638
Tensile Modulus	2.628 - 3.321 GPa	381.2 - 481.7 ksi	ASTM D638
Flexural Strength	92.8 - 97.0 MPa	13500 - 14100 psi	ASTM D790
Flexural Modulus	2.618 - 3.044 GPa	379.7 - 441.5 ksi	
Izod Impact, Notched	0.223 - 0.299 J/cm	0.418 - 0.560 ft-lb/in	ASTM D256
Penetration	6.6	6.6	mils; Viper/SLA 3500
	6.6	6.6	mils; SLA 5000
	6.8	6.8	mils; SLA 7000

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	@Temperature 0.000 - 20.0 °C	@Temperature 32.0 - 68.0 °F	T<Tg; ASTM E831-93
	187 µm/m-°C	104 µin/in-°F	T>Tg; ASTM E831-93
Deflection Temperature at 0.46 MPa (66 psi)	@Temperature 90.0 - 150 °C	@Temperature 194 - 302 °F	
	51.0 - 54.0 °C	124 - 129 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	101 - 114 °C	214 - 237 °F	with 160°C thermal postcure; ASTM D648
	43.0 - 49.0 °C	109 - 120 °F	ASTM D648
Glass Transition Temp, Tg	62.0 - 65.6 °C	144 - 150 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Clear amber	
Critical Exposure (mJ/cm ²)	20.1	SLA 7000
	20.2	SLA 5000
	21.7	Viper/SLA 3500
Tested Build Styles	EXACT™, Exact HR, FAST™, ThinLayer™	

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