3D Systems Accura® SI 40 Plastic for the SLA® 250 System

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Accura 40 "Ar" or "Hc" type materials - for the SLA 250 system. Mimics Nylon 6:6ApplicationsHigh temperature testing:Under hood bolt-on testingWind tunnel testingHVAC testingPrototyping and testing of rigid cases and enclosuresFlow visualizationDrilling and self-tappingPressure tappingsSnap fit assembliesRTV mold patternsFeaturesStiffness matches nylon 6:6High heat resistance without brittlenessGood durabilityOutstanding accuracy with minimal distortionFully developed and tested build stylesAll information provided by 3D Systems.

Order this product through the following link:
http://www.lookpolymers.com/polymer_3D-Systems-Accura-SI-40-Plastic-for-the-SLA-250-System.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc @Temperature 25.0 °C	0.0397 lb/in³ @Temperature 77.0 °F	Liquid
Viscosity	485 cP @Temperature 30.0 °C	485 cP @Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	90 Minute UV Cure; ASTM D2240
	90	90	90 Minute UV Cure + Thermal; ASTM D2240
Tensile Strength, Yield	64.9 - 65.7 MPa	9410 - 9530 psi	90 Minute UV Cure; ASTM D638
	75.2 - 75.7 MPa	10900 - 11000 psi	90 Minute UV Cure + Thermal; ASTM D638
Elongation at Break	4.4 - 5.5 %	4.4 - 5.5 %	90 Minute UV Cure; ASTM D638
	5.3 - 8.2 %	5.3 - 8.2 %	90 Minute UV Cure + Thermal; ASTM D638
Tensile Modulus	3.169 - 3.238 GPa	459.6 - 469.6 ksi	90 Minute UV Cure; ASTM D638
	3.10 - 3.309 GPa	450 - 479.9 ksi	90 Minute UV Cure + Thermal; ASTM D638
Flexural Strength	106.7 - 110.2 MPa	15480 - 15980 psi	90 Minute UV Cure; ASTM D790
	110.9 - 112.3 MPa	16080 - 16290 psi	90 Minute UV Cure + Thermal; ASTM D790
Flexural Modulus	3.10 - 3.186 GPa	450 - 462.1 ksi	90 Minute UV Cure + Thermal; ASTM D790
	3.169 - 3.238 GPa	459.6 - 469.6 ksi	90 Minute UV Cure; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.1658 - 0.1872 J/cm	0.3106 - 0.3507 ft-lb/in	90 Minute UV Cure; ASTM D256
	0.1281 - 0.230 J/cm	0.2400 - 0.431 ft-lb/in	90 Minute UV Cure + Thermal; ASTM D256
Penetration	4.7	4.7	mils

Thermal Properties	Metric	English	Comments
CTE, linear	53.7 µm/m-°C	29.8 µin/in-°F	90 Minute UV Cure + Thermal; T<Tg; ASTM E831-93
	61.0 µm/m-°C	33.9 µin/in-°F	90 Minute UV Cure; T<Tg; ASTM E831-93
	103 µm/m-°C	57.2 µin/in-°F	90 Minute UV Cure + Thermal; T>Tg; ASTM E831-93
	147 µm/m-°C	81.7 µin/in-°F	90 Minute UV Cure; T>Tg; ASTM E831-93
Deflection Temperature at 0.46 MPa (66 psi)	61.0 °C	142 °F	90 Minute UV Cure; ASTM D648
	120 °C	248 °F	90 Minute UV Cure + Thermal; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	90 Minute UV Cure; ASTM D648
	105 °C	221 °F	90 Minute UV Cure + Thermal; ASTM D648
Glass Transition Temp, Tg	76.0 °C	169 °F	90 Minute UV Cure; DMA, E"
	99.0 °C	210 °F	90 Minute UV Cure + Thermal; DMA, E"

Descriptive Properties	Value	Comments
Appearance	Clear amber	
Critical Exposure (mJ/cm²)	13.9	
Tested Build Styles	EXACT™	

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