

3D Systems Accura® ClearVue™ Free (SL 7870) Stereolithography Plastic

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

High clarity plastic for a multitude of applications
Features Clear and transparent Rigid and tough Great for headlamps, bottles and transparent assemblies
Excellent humidity/moisture resistance All information provided by 3D Systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3D-Systems-Accura-ClearVue-Free-SL-7870-Stereolithography-Plastic.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	
	1.15 g/cc	0.0415 lb/in ³	Solid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	180 cP	180 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength	38.0 - 42.0 MPa	5510 - 6090 psi	ASTM D638
Elongation at Break	10 - 22 %	10 - 22 %	ASTM D638
Tensile Modulus	1.94 - 2.25 GPa	281 - 326 ksi	ASTM D638
Flexural Strength	73.0 - 76.0 MPa	10600 - 11000 psi	ASTM D790
Flexural Modulus	1.94 - 2.25 GPa	281 - 326 ksi	ASTM D790
Izod Impact, Notched	0.230 - 0.510 J/cm	0.431 - 0.955 ft-lb/in	ASTM D256
Penetration	4.6	4.6	mils penetration depth

Thermal Properties	Metric	English	Comments
CTE, linear	97.0 µm/m-°C	53.9 µin/in-°F	
	@Temperature 25.0 - 50.0 °C	@Temperature 77.0 - 122 °F	
	216 µm/m-°C	120 µin/in-°F	
	@Temperature 50.0 - 100 °C	@Temperature 122 - 212 °F	

Deflection Temperature at 0.46 MPa (0.07 psi) Thermal Properties	48.0 °C Metric	118 °F English	ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	41.0 °C	106 °F	ASTM D648
Glass Transition Temp, Tg	56.0 °C	133 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Clear	
Critical Exposure (Ec)	10.6 mJ/cm ²	

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