

Huntsman RenShape[®] SL 7820 Stereolithography Plastic

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

RenShape[®] SL 7820 stereolithography material is a white, low viscosity and stable liquid that produces strong black models and prototypes with good surface finish and detail, and ABS-like appearance. It offers a large working envelope of physical properties, high elongation and impact strength suitable for building concept models, and functional prototype parts. Information provided by Huntsman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-RenShape-SL-7820-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	
	1.16 g/cc	0.0419 lb/in ³	Solid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	210 cP	210 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	240 cP	240 cP	
	@Temperature 28.0 °C	@Temperature 82.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength	36.0 - 51.0 MPa	5220 - 7400 psi	ASTM D638
Elongation at Break	8 - 18 %	8 - 18 %	ASTM D638
Tensile Modulus	1.90 - 2.40 GPa	276 - 348 ksi	ASTM D638
Flexural Strength	59.0 - 80.0 MPa	8560 - 11600 psi	ASTM D790
Flexural Modulus	2.00 - 2.40 GPa	290 - 348 ksi	ASTM D790
Izod Impact, Notched	0.420 - 0.480 J/cm	0.787 - 0.899 ft-lb/in	ASTM D256
Penetration	4.5	4.5	mils penetration depth

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa			

(56 psi) Thermal Properties	93.0 Å°C Metric	199 Å°F English	below Tg: ASTM D648 Comments
Glass Transition Temp, Tg	62.0 Å°C	144 Å°F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Dark brown to black	cured
	White	liquid
Critical Exposure (Ec)	10 mJ/cmÅ²	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China