

# Perfactory® LS600

Acrylic

EnvisionTEC, Inc.

## Message:

EnvisionTEC's LS600 is the latest breakthrough in extremely durable photopolymers for use in producing very accurate parts with high feature detail on EnvisionTEC's 3D printers. With added stability and surface quality, this material produces parts with high impact resistance similar to thermoplastics. Tough, complex parts can be built with a superb surface quality compared with competing technologies. LS600 provides superb detail without sacrificing speed or durability and has the best overall mechanical stability over time. It provides considerable processing latitude and is ideal for markets that demand accurate RTV patterns, durable concept models, highly accurate parts, and humidity and temperature resistant parts.

Applications

MCAD

Recommended Machines:

Perfactory® 4 Standard with ERM, Perfactory® 4 Standard XL with ERM, Perfactory® 4 Mini XL with ERM, Perfactory® 4 Mini with ERM, Perfactory® 3 Mini Multi Lens

General Information			
Features	Durable		
	Good Impact Resistance		
	Good Toughness		
	High Heat Resistance		
	Humidity Resistant		
	Outstanding Surface Finish		
Uses	Engineering Parts		
	Modeling Material		
	Mold Making		
	Molds/Dies/Tools		
	Patterns		
	Prototyping		
Appearance	Beige		
	Opaque		
	Yellow		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm <sup>3</sup>	
Viscosity (30°C)	140	mPa · s	
Notched Izod Impact	0.630	J/cm <sup>3</sup>	ASTM D256A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	1800	MPa	ASTM D638
Tensile Strength (Break)	60.0	MPa	ASTM D638
Tensile Elongation (Break)	4.4	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	57.0	°C	
1.8 MPa, Unannealed	48.0	°C	
Glass Transition Temperature	61.0	°C	ASTM E1545

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

