

Perfactory® Material

LS600

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.

Mechanical Properties*		
ASTM Method	Description	LS600
D638M	Tensile Modulus Tensile Strength at Break Elongation at Break	1,800 MPa 60 MPa 4.39%
D2240	Hardness (Shore D)	85
D256A	Izod Impact (Notched)	0.63 J/cm ³
Thermal and Electrical Properties		
ASTM Method	Description	LS600
E1545-00	Glass Transition Temperature	61°C
D648	HDT @ 0.46 MPa HDT @ 1.81 MPa	57°C 48°C
Physical Properties		
Description		LS600
Appearance		Opaque yellow-beige
Viscosity		140 cP at 30°
Density		1.10 g/cm ³

*All data provided is preliminary data and must be verified by the individual user.

Recommended Machines
Desktop XL, Perfactory® 4 Standard, Perfactory® 4 Standard XL, Perfactory® 4 Mini XL, Perfactory® 4 Mini, Perfactory® 3 Mini Multi Lens
Applications
MCAD



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