# PERFACTORY®

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 3-dimensional 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. envisionTEC's **LS600** provides superb detail without sacrificing speed or durablility. It has the best overall mechanical stability over time.

Application

The high-temperature, ABS-like photopolymer is used in the digital mask production solid imaging process to build 3-dimensional parts. envisionTEC's **LS600** provides considerable processing latitude and is ideal for the medical, electronic, aerospace, and automotive markets that demand accurate RTV patterns, durable concept models, highly accurate parts, humidity and temperature parts.

Applications include:

Functional end-use performance and prototypes, snap fit designs, impellers, duct work, connector and electronic covers, automotive housings and dashboard assemblies, packaging applications, and consumer sporting goods.
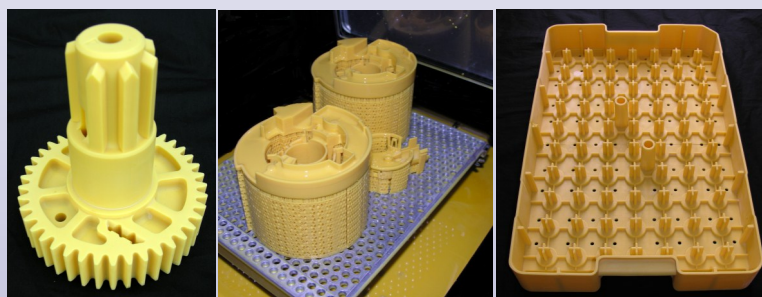
Mechanical Properties

ASTM Method	Description	Value
D638M	Tensile Modulus	1,800 MPa
	Tensile Strength at Break	60 MPa
	Elongation at Break	4.39%
D2240	Hardness (Shore D)	85
D256A	Izod Impact (Notched)	0.63 J/cm²

Physical Properties

Description	Value
Appearance	Opaque yellow-beige
Viscosity	140 cP at 30°
Density	1.10 g/cm³

Thermal and Electrical Properties

ASTM Method	Description	Value
E1545-00	Glass Transition Temperature	61°C
D648	HDT @ 0.46 MPa	57°C
	HDT @ 1.81 MPa	48°C

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