# Micro Material

## LS600 M

EnvisionTEC's LS600 M 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 M 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<br>Tensile Strength at Break<br>Elongation at Break | 1,800 MPa<br>60 MPa<br>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<br>HDT @ 1.81 MPa | 57°C<br>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 |
|---|
| Perfactory® Micro EDU, Perfactory® Micro XL |

| Applications |
|---|
| Manufacturing, Education |


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