



8100-SLA

Description

The 8100 is a high-transparency and low-viscosity SLA photosensitive polymer suitable for stereolithography (SLA) 3D printing rapid prototyping systems with 355 nm light sources.



Features

Features: High transparency, excellent strength and toughness, high precision and good dimensional stability

Color: Transparent

Note: The 8100 should not be used or stored at a higher temperature, specifically used at $26\pm 2^{\circ}\text{C}$, and stored at $25\pm 5^{\circ}\text{C}$

Advantages: Parts made of 8100 can maintain stable characteristics for up to 6.5 months

Recommended applications: Automotive, medical, consumer electronics, toys, displays, etc.





Parameters

| Technical Data - Liquid Properties | |
|------------------------------------|---|
| Appearance | Nearly colorless transparent viscous liquid |
| Viscosity | 200mPa·s@25°C |
| Density | ~1.12 g/cm ³ @25°C |

| TECHNICAL DATE-OPTICAL PROPERTITES | |
|---|------------------------|
| Recommended Layer Thickness of Construction | 0.1mm |
| Ec | 11.8mJ/cm ² |
| Penetration Depth | 0.145mm |

| TECHNICAL DATE- MECHANICAL PROPERTITES | | |
|--|-------------|-------------|
| Mechanical Properties | | UV Postcure |
| Property Description | ASTM Method | Metric |
| Tensile Strength | D638M | 48MPa |
| Elongation at Break | D638M | 12% |
| Flexural Strength | D790M | 86MPa |
| Flexural Modulus | D790M | 2100MPa |
| Izod Impact-Notched | D256A | 28j/m |
| Hardness- Shore D | D2240 | 82 |
| Water Absorption | D570-98 | 0.48% |

