Xometry

Datasheet

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±2°C, and stored at 25±5°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.

Note: All material data listed in Xometry's data sheets is sourced from trusted Original Equipment Manufacturers (OEMs), material distributors, and databases.

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Parameters

Technical Data - Liquid Properties	
Appearance	Nearly colorless transparent viscous liquid
Viscosity	200mPa·s@25°C
Density	~1.12 g/cm3@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%

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