

# Godart®8001

## Product Description

Godart®8001 is a clear Stereolithography (SLA) resin which has good dimensional stability. It is used in the manufacturing of mother models, conceptual models, general components and functional components that require high transparency in automotive, medical, consumer electronics and other industrial fields.

## Typical Features

- SLA photosensitive resin with high transparency and low viscosity.
- Mid-range strength and toughness.
- High accuracy and good dimensional stability.

## Physical Properties (Liquid)

Appearance	An almost colorless, transparent, viscous liquid
Density	~1.12 g/cm <sup>3</sup> @25 °C
Viscosity	200mPa·s@25 °C

## Optical Properties

Critical Exposure (Ec)	7.9 mJ/cm <sup>2</sup>
Penetration Depth (Dp)	0.08 mm
Recommended Layer Thickness of Construction	0.1 mm

## Mechanical Properties (90-minute UV post-cure)

Property Description	Test Method	Metric
Flexural Modulus	ASTM D790	2100 MPa
Tensile Strength	ASTM D638	48 MPa
Flexural Strength	ASTM D790	86 MPa
Izod Impact (Notched)	ASTM D256	28 J/m
Elongation at Break	ASTM D638	12%
Hardness (Shore D)	ASTM D2240	86
Water Absorption	ASTM D570-98	0.48%

\* The service temperature and storage temperature of Godart 8001 should not be too high. The service temperature range is 26±2°C, and the storage temperature is 25±5 °C.

Note: Material performance may vary depending on application, processing conditions and end-use environment. The information in this spec sheet is provided as typical values only and is not guaranteed.