

Premium Clear Resin Datasheet



Overview

Premium Clear Resin is a light-reactive material tailored for SLA 3D printing. Known for producing parts with a smooth finish and a transparent or translucent appearance, it is ideal for projects that demand clarity. Its optical qualities make it a go-to option for applications needing see-through components.

As-printed Part's Tolerance: $\pm 200\mu\text{m}$ or 0.2%

Maximum Printing Size: 2100*1700*810mm

Properties

Thermal Properties	Metric	Method
Heat Deformation (0.46 MPa)	50°C	ASTM D648M
Heat Deformation (1.82 MPa)	49°C	ASTM D648M
Mechanical Properties	Metric	Method
Tensile Strength	50.4MPa	ASTM D638M
Tensile Modulus	2770MPa	ASTM D638M
Elongation at Break	15.5%	ASTM D638M
Flexural Properties	Metric	Method
Flexural Modulus	2205MPa	ASTM D2240
Flexural Strength	68.7MPa	ASTM D790M
Impact Properties	Metric	Method
Notched Impact Strength	45 J/m	ASTM D256A
Other Properties	Metric	Method
Water Absorption	0.26%	ASTM D570-98

Pros

Produces transparent parts with exceptional clarity. Its smooth finish and see-through quality make it an excellent choice for designs where visibility and aesthetics matter. Engineered to resist water and maintain dimensional stability even in humid environments, it's available in both clear and translucent variations. Premium Clear Resin is perfect for everyday use, including visual prototypes, concept models, artistic creations, and figurines.

Cons

When printing solid, thick objects, small air bubbles might sometimes appear within the part. Over time, resin-printed items can develop a yellow tint and become brittle if exposed to direct sunlight for extended periods — a natural effect of the material's properties.

Applications

Sculptures and Props

Optical Applications

Home Supplies

Industrial Display Panels

Jewelries

Experimental Instruments

Interior Decorations

Figurines

Consumer Goods