

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

Mechanical Properties	Metric	Method
Tensile Strength	45-50MPa	ASTM D638M
Elongation at Break	4-9%	ASTM D638M
Flexural Properties	Metric	Method
Flexural Modulus	2400-2600MPa	ASTM D790M
Flexural Strength	70-80MPa	ASTM D790M
Impact Properties	Metric	Method
Izod Impact-Notched	27 J/m	ASTM D256A
Other Properties	Metric	Method
Water Absorption	0.53%	ASTM D570-98
Hardness-Shore D	82	ASTM D2240

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