

High-Detail Resin Gray Datasheet



Overview

Designed for high-precision manufacturing, High-Detail Resin Gray is a perfect material for miniatures, sculptures, etc. With SLA 3D printing, it produces parts with an extremely smooth surface and impressive precision.

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

Maximum Printing Size: 600*600*400mm

Properties

Thermal Properties	Metric	Method
Heat Deformation (0.46 MPa)	53°C	ASTM D648M
Mechanical Properties	Metric	Method
Tensile Strength	47.2MPa	ASTM D638M
Tensile Modulus	2587MPa	ASTM D638M
Elongation at Break	6.4%	ASTM D638M
Flexural Properties	Metric	Method
Flexural Modulus	2562MPa	ASTM D790M

Pros

With exceptional detail fidelity, SLA printed high-detail resin gray delivers a sleek, smooth finish that's easy to paint or color. Its low water absorption also makes it an excellent choice for applications requiring water resistance.

Cons

Thicker, solid prints may show a slight yellow tint during production. Over time, resin-based products exposed to direct sunlight can gradually yellow and lose their strength, becoming more brittle with prolonged UV exposure.

Applications

Miniatures and Sculptures

Consumer Electronics

Home Supplies

Industrial Display Panels

Props

Experimental Instruments

Interior Decorations

Figurines

Game Consoles