

# **Standard Resin Black Datasheet**



#### **Overview**

Quality Resin Black is a UV-sensitive material specifically developed for SLA 3D printing. It produces parts with a sleek, smooth finish and reliable toughness. What sets this resin apart is its distinctive deep black color, making it ideal for applications that demand both strength and a bold, polished appearance.

As-printed Part's Tolerance: ±200µm or 0.2%

Maximum Printing Size: 2100\*1700\*810mm



## **Properties**

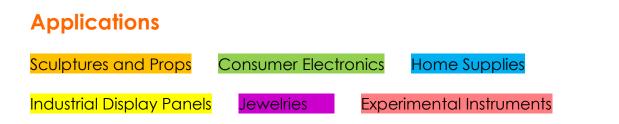
Thermal Properties	Metric	Method
Heat Deformation	55°C	ASTM D648M
Mechanical Properties	Metric	Method
Tensile Strength	57.5MPa	ASTM D638M
Tensile Modulus	1300MPa	ASTM D638M
Elongation at Break	7.8%	ASTM D638M
Flexural Properties	Metric	Method
Flexural Strength	62.5MPa	ASTM D790
Flexural Modulus	1600MPa	ASTM D790M
Impact Properties	Metric	Method
Notched Impact Strength	49.5 J/m	ASTM D256A
Other Properties	Metric	Method
Glass-transition Temperature Density Hardness	65°C 1.187 g/cm³ 81.5 Shore D	DMA, E" peak 25°C ASTM D2240

#### Pros

Featuring a rich, solid black hue, it delivers outstanding value and a naturally smooth finish that's ready to accept paint. Its low water uptake ensures reliable performance in waterproof applications, while its sleek surface makes it perfect for visual prototypes, proof-of-concept models, artistic creations, and figurines.

## Cons

In some prints, layer lines may be more visible depending on the design. When the walls are thin, the material can appear semi-translucent, allowing light to pass through. Like most resin-based materials, extended exposure to direct sunlight can cause printed parts to turn yellow and become brittle over time.





Interior Decorations

Figurines Game Consoles