

High-Temp Resistant Resin Red Datasheet



Overview

Crafted for applications demanding enhanced heat resistance, High-Temp Resistant Resin Red is a specialized material that offers excellent thermal durability. It features a red-orange hue and is available in both translucent and transparent finishes.

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)	101.9°C	ASTM D648M
Heat Deformation (1.82 MPa)	85.5°C	ASTM D648M
Mechanical Properties	Metric	Method
Tensile Strength	42.7MPa	ASTM D638M
Tensile Modulus	3235MPa	ASTM D638M
Elongation at Break	1.5%	ASTM D638M
Flexural Properties	Metric	Method
Flexural Strength	96.6MPa	ASTM D790M
Flexural Modulus	3165MPa	ASTM D2240
Hardness	83 Shore D	ASTM D2240

Pros

High-Temp Resistant Resin Red stands out for its superior heat tolerance compared to standard resins. It combines toughness with a smooth surface finish and can be crafted in either transparent or translucent form. It is an excellent choice for components like lampshades or light channels, where durability under high temperatures and light transmission are essential without sacrificing appearance.

Cons

When printing dense, complex, and thick models, occasional air bubbles may appear within the final piece. Additionally, because of the natural properties of resin, prolonged exposure to direct sunlight can cause the material to yellow over time and become more brittle.

Applications

Interior Decorations

Light pipelines and Lampshades

Home Supplies

Industrial Display Panels

Jewelries

Consumer Electronics

Sculptures and Props

Taillights

Industrial Display Panels