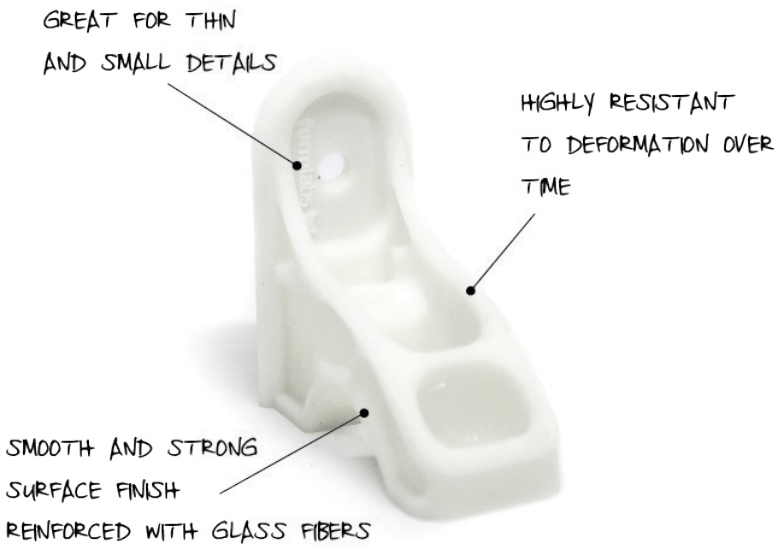
Info Sheet

RIGID RESIN

Makelab



Description

Rigid resin is a long-lasting material that is highly resistant to deformation over time. It is great for printing thin walls and features. It offers high stiffness, a high quality surface finish, and is reinforced with glass.

Uses

Jigs prototyping
Fixtures and tooling
Electrical casings and housings

Colors

Material Properties

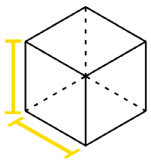
Brittleness

Hardness

Tensile Strength

Overall Strength

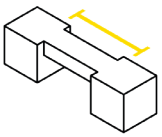
Maximum Build Volume



145 mm x 145 mm x 175 mm
5.7 in x 5.7 in x 6.9 in

The maximum size we are able to print for this material.

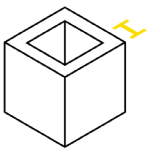
Max Unsupported Bridge Length



1 mm
0.39 in

The span a material can print without the need for support material.

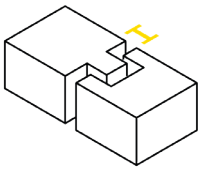
Minimum Wall Thickness



0.6 mm
0.236 in

The minimum thickness a wall can be printed.

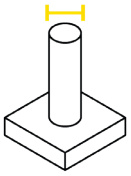
Minimum Clearance



0.35 mm
0.013 in

The recommended clearance between two moving or connecting parts.

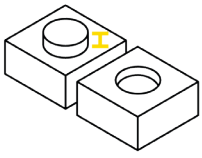
Minimum Vertical Wire Diameter



0.3 mm
0.01 in

The minimum diameter a pin can be printed at.

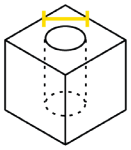
Minimum Detail



0.1 mm
0.0039 in

The recommended height of details that are raised or recessed below the model surface.

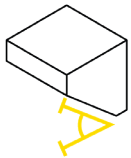
Minimum Hole Diameter



0.5 mm
0.021 in

The minimum diameter a technology can successfully print a hole.

Maximum Overhang Angle



19 degrees

The maximum angle a wall can be printed at without requiring support.