

Rigid 10K Resin

Resin | LCD

Our stiffest resin — for mould masters and precision fixtures.

A heavily glass-filled resin and the stiffest resin we print. It hardly bends, holds tolerances well and withstands moderate heat, which makes it suitable for short-run mould masters and precise test fixtures. It is brittle, so design out sharp internal corners.

Mechanical properties

Elastic modulus	126 MPa
Tensile strength	65 MPa
Elongation at break	1%
Heat deflection temp	82 °C

Typical applications

- Short-run mould masters
- Thermoforming tools
- Wind-tunnel and test models
- Fluid manifolds
- Precision alignment tools
- Dimensionally stable prototypes

Maximum part size

200 × 125 × 210mm (larger parts can be split and joined)

Available finishes

Brass threaded inserts · Electroplated · Sanded smooth · Split and bonded · Spray painted, gloss · Spray painted, matte · Spray painted, metallic · Spray painted, soft-touch · Tapped threads · UV clear coat

Values are indicative and depend on part geometry, build orientation and post-processing. For project-specific requirements contact info@3dexperts.me. Instant price: 3dexperts.me/quote