



Ultracur3D® RG

Rigid Reactive Urethane Photopolymer

Ultracur3D® RG (Rigid product line) is a medium-viscous, highly reactive photopolymer for 3D printing applications resulting in rigid multipurpose parts. It can be used to produce high performance functional parts by using stereolithography (SLA), digital light processing (DLP) or Liquid Crystal Display (LCD) machines. Parts produced with this resin show no water uptake.

Benefits at a Glance

- High accuracy
- Low shrinkage
- Water washable

Example Applications

- Dental molds
- Dental models for thermoforming

Material Properties: Ultracur3D RG 503

Flexural Strength (MPa)	ASTM D790	81 MPa
Flexural Modulus (MPa)	ASTM D790	2290 MPa
Tensile Strength	ASTM D638	49 MPa
Young's Modulus (MPa)	ASTM D638	2300 MPa
Elongation at Break (%)	ASTM D638	4 %
Shore Hardness (D)	Scale D	86

Application Reference

Dental Mold

■ Description of the Application:

Ultracur3D® RG 503 is a water washable, light-curing, temperature-resistant resin for the 3D printing of dental molds for the thermoforming technique.

Precise reproduction of details, maximum surface hardness and edge stability of the models. Precision in construction, tactility and stability meet the high demands of model fabrication. Low viscosity for considerably easier cleaning and faster printing time.

