



Ultra-RC70 is a high-performance white photocurable resin developed for SLA (Stereo lithography Appearance), and the prepared samples are formed in a caesious color. The samples prepared with this product possess high strength, high heat resistance, desirable toughness, and excellent aging resistance. The printed samples can be used in the medium and long term, especially suitable for some functional verifications or small batch terminal application scenarios that require high performance.

- high heat resistance
- Smooth surface
- high strength
- high precision

Liquid Properties	
Appearance	White opaque liquid
Viscosity	563 cps @ 30 °C
Density	1.05 g/cm ³ @ 25 °C

Optical Properties		
E _c	85.5 mJ/cm ²	[critical exposure]
D _p	0.27 mm	[penetration depth]
E ₁₀	218.5 mJ/cm ²	[exposure that gives 0.254mm(0.010inch)thickness]

Mechanical Properties		
Method	Property Description	Typical Values
D638	Tensile strength	58 MPa
D638	Tensile modulus	1950 MPa
D638	Elongation at break	14 %
D790	Flexural strength	72 MPa
D790	Flexural modulus	2526 MPa
D256	Impact strength	45 J/m
D2240	Hardness (Shore D)	85

Thermal Properties		
Method	Property Description	Typical Values
D648	HDT @ 0.455 MPa	69.5 °C
D648	HDT @ 1.82 MPa	59.3 °C

UV aging resistant Properties		
Method	Property Description	UV 120mins@60°C
D638	Tensile strength	63 MPa
D638	Tensile modulus	2015 MPa
D638	Elongation at break	11 %
D790	Flexural strength	75 MPa
D790	Flexural modulus	2612 MPa
D256	Impact strength	34 J/m
D2240	Hardness (Shore D)	85

Heat aging resistant Properties		
Method	Property Description	240mins@120°C
D638	Tensile strength	66 MPa
D638	Tensile modulus	2278 MPa
D638	Elongation at break	11 %
D790	Flexural strength	87 MPa
D790	Flexural modulus	2901 MPa
D256	Impact strength	45 J/m
D2240	Hardness (Shore D)	85

These values may vary and depend on individual machine processing and post-curing practices.