

RE 51

Model Resin

RE 51 is a fast-printing model resin with high precision. It is recommended to be used in the production of figurines, education and medical models.



White **Orange**



Fast



No bubbles



Anti-scratch



Accurate

RE 51 (White) Technical Data Sheet:

Tensile Properties, ASTM D638, Type IV	Metric	U.S.
Tensile Modulus, 1 mm/min	2282 MPa	330.96 ksi
Ultimate Tensile Strength, 10 mm/min	53 MPa	7.69 ksi
Elongation at Break, 10 mm/min	6.27 %	6.27 %
Tensile Strength at Yield, 10 mm/min	54 MPa	7.83 ksi
Elongation at Yield, 10 mm/min	5.32 %	5.32 %
Impact Properties	Metric	U.S.
Notched Izod (Machined), 23°C, ASTM D256	9.52 J/m	0.18 ft-lb/in
Notched Izod (Machined), 23°C, ISO 180/A	1.38 KJ/m ²	0.66 ft-lb/in ²
Flexural Properties, ASTM D790, 1 %/min	Metric	U.S.
Flexural Strength	74 MPa	10.73 ksi
Flexural Modulus	2011 MPa	291.66 ksi
Thermal Properties, ASTM D648	Metric	U.S.
Heat Deflection Temperature @ 0.455 MPa/66 psi, ASTM D648	73.3 °C	163.9 °F
General Properties	Metric	
Hardness, Shore D, ASTM D2240	86D	
Density (cured resin), ASTM D792	1.19 g/cm ³	
Density (liquid resin), ASTM D4052	1.10 g/cm ³	
Viscosity, 25°C, ASTM D2196	936 cps	
Water Absorption, 24 hours, 23°C, ASTM D570	0.88 %	

The above TDS data is tested and verified in LuxCreo's 3D printing system. The mechanical properties of the material may vary based on print orientation, print settings and the choice of post-process technology. Please refer to LuxCreo's material "Application Guide" or consult after-sales to select suitable parameters for best performance of the material. Improper use of materials or non-compliance with material "Application Guide" may result in changes in mechanical properties and colors. LuxCreo reserves the right to change material properties and formulations without notice.