

RE 41

Water-Washable Prototyping Resin

RE 41 model resin has the material characteristics of washable, low viscosity and high precision, which can make the printed model have a smooth and fine textured surface, and is widely used in hand-made toys, education and medical models.

RE 41 can be adapted to Lux series printers, which can achieve high-precision and fast printing at the same time.



Water-washable



Fast



Accurate



Low viscosity



Khaki

US:

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MAT #RE412101-01 Rev1.0

RE 41 Technical Data Sheet:

Tensile Properties, ASTM D638	Metric	U.S.
Tensile Modulus	1450 MPa	210.3 ksi
Ultimate Tensile Strength	32 MPa	4.6 ksi
Elongation at Break	4.0 %	4.0 %
Impact Properties	Metric	U.S.
Notched Izod (Machined), 23°C, ASTM D256	31.27 J/m	0.58 ft-lbf/in
Notched Izod (Machined), 23°C, ISO 180/A	3.44 kJ/m ²	1.65 ft-lb/in ²
Flexural Properties, ASTM D790	Metric	U.S.
Flexural Strength	57 MPa	8.3 ksi
Flexural Modulus	1650 MPa	239.3 ksi
Thermal Properties, ASTM D648	Metric	U.S.
Heat Deflection Temperature @ 0.455 MPa/66 psi, ASTM D648	105.1 °C	221.2 °F
General Properties	Metric	
Hardness, Shore D, ASTM D2240	86D	
Density (cured resin), ASTM D792	1.24 g/cm ³	
Density (liquid resin), ASTM D4052	1.13 g/cm ³	
Viscosity, 25°C, ASTM D2196	180 cps	
Water Absorption, 24 hours, 23°C, ASTM D570	4.86 %	
Water Absorption, Long Term (14 Days), ASTM D570	13.39 %	

These data are typical values and were determined through testing on printers which are validated for use with Luxcreo's products. Mechanical properties will vary based on machine, part orientation, machine type, machine power, post curing of the printed parts, and cleaning. See product guide for post-processing procedure and best practices. Improper use or failure to adhere to the product guide may result in variations of color and mechanical properties. Luxcreo reserves the right to change material characteristics, and formulation without prior notification.