

# EM 01

## Elastic Resin

EM 01 is a fast printing one-component elastic resin that offers excellent resilience and detailed precision. It is ideal for rapid prototyping, new product verification, and industrial model manufacturing with lattice structures.



Black



Resilience



Accurate



Fast

## EM 01 Technical Data Sheet:

Mechanical Properties	Metric	U.S.
Ultimate Tensile Strength, ISO 37, Type II, 500 mm/min	8.00 MPa	1.16 ksi
Elongation at Break, ISO 37, Type II, 500 mm/min	94 %	94 %
Tensile modulus, ISO 37, Type II, 500 mm/min	40.86 MPa	5.92ksi
Tear Strength, ASTM D624, Die-C (die cut), 500 mm/min	3.00 kN/m	17.13 lbf/in
Rebound Resilience, ISO 4662	34 %	34 %
Thermal Properties	Metric	U.S.
Tg (DMA, tan(d)), ASTM D4065	-17.60 °C	0.3 °F
Storage modulus (DMA, tan(d)), ASTM D4065	6.68 MPa	0.97 ksi
tan δ, 25°C, (DMA), ASTM D4065	0.1200	0.1200
General Properties	Metric	
Hardness, Shore A, ASTM D2240	75A	
Density (cured resin), ASTM D792	1.04 g/cm <sup>3</sup>	
Density (liquid resin), ASTM D4052	1.02 g/cm <sup>3</sup>	
Viscosity, 40°C, ASTM D2196	2370 cps	

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" and "EM Design Guide" or consult aftersales to choose a suitable process. Improper use of materials or non-compliance with material "Application Guide" or "EM Design Guide" may result in changes in mechanical properties and colors. LuxCreo reserves the right to change material properties and formulations without notice.