

# EM 01

## High Elasticity Resin

EM 01 is a one-component PU material with high resilience, high detail expressiveness and fast and convenient post-processing technology. After direct printing, only cleaning, curing and simple polishing are required for new product development verification. With LEAP™ nano release technology, EM 01 is suitable for rapid model verification of rubber, polyurethane elastomers and similar structures of crystal lattices, mainly using industrial models.



Resilience



Accurate



Fast



Black

US:

940 Old County Rd, Belmont, CA, 94002, USA

MAT #EM012101-01 Rev1.0

## EM 01 Technical Data Sheet:

Mechanical Properties	Metric	U.S.
Ultimate Tensile Strength, ISO 37	8.00 MPa	1.16 ksi
Elongation at Break, ISO 37	94 %	94 %
Tear Strength, ASTM D624, Die-C (die cut)	3.00 kN/m	17.13 lbf/in
Rebound Resilience, ISO 4662	34 %	34 %
Thermal Properties, ASTM D648	Metric	U.S.
Tg (DMA, tan(d)), ASTM D4065	-17.60 °C	0.3 °F
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	

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.