

EM⁺24

High Elasticity Resin

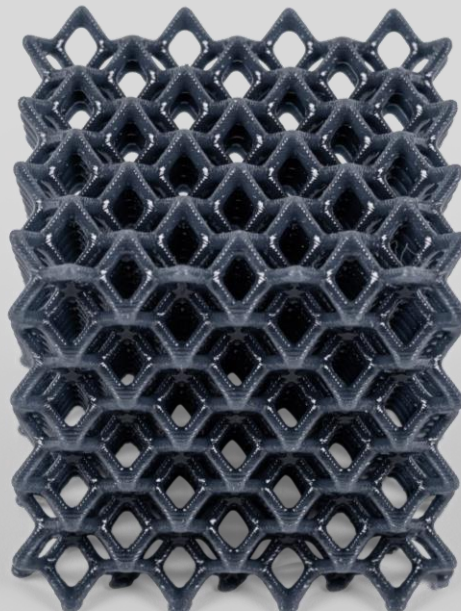
EM⁺24 has ultra-high resilience, combined with LuxCreo's unique lattice structure, the energy return (Energy Return) can reach 83%, exceeding Pebax foam material. At the same time, EM⁺24 is extremely resistant to low temperatures and can still maintain super high resilience at -30°C. EM⁺24 is an ideal material for rapid prototyping and elastic processing parts such as sports shoe midsoles, automotive interiors and industrial suspensions. Based on LEAP™ nano-release technology, the component molding speed is fast, with excellent dimensional accuracy and detail resolution.



Resilience



Low Temp Resistant



Black

US:

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

MAT #EM242101-01 Rev1.0

EM+24 Technical Data Sheet:

Mechanical Properties	Metric	U.S.
Ultimate Tensile Strength, ISO 37	16.68 MPa	2.42 ksi
Elongation at Break, ISO 37	210 %	210%
Tear Strength, ASTM D624, Die-C (die cut)	27.30 kN/m	155.88 lb _f /in
Rebound Resilience, ISO 4662	58%	58%
Ross Flexing Fatigue (Notched), ASTM D1052 23°C, 90 degree bending, 100 cycles/minute	>125,000	>125,000
Thermal Properties, ASTM D648	Metric	U.S.
Tg (DMA, tan(d)), ASTM D4065	-34.7°C	-30.46°F
tan(d)(DMA,25°C), ASTM D4065	0.0393	0.0393
General Properties	Metric	
Hardness, Shore A, ASTM D2240	70 A	
Density (cured resin),ASTM D792	1.05 g/cm ³	
Density (liquid resin), ASTM D4052	1.02 g/cm ³	
Viscosity, 40°C, ASTM D2196	2800 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.