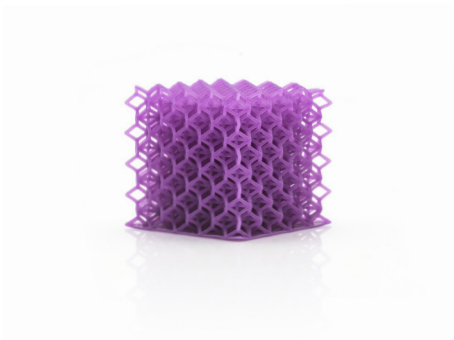


Technical Data

Evonik INFINAM® FL 6300 L powered by Cubicure



Finally highly complex structures can be printed with a rubber-like material. INFINAM® FL 6300 L arose out of a joint innovation project between Cubicure and German specialty chemicals company Evonik. It enables completely new manufacturing possibilities for elastic components such as grips, sealings, or damping and cushioning elements. This material excels in low-temperature elasticity and boasts highly dynamic load cycles.

Mechanical properties

Property	Standard	Print orientation	Experimental condition	Result
Tensile strength	ISO 527 (Type 5A)	XYZ	500 mm min ⁻¹	10 MPa
Young's Modulus	ISO 527 (Type 5A)	XYZ	1 mm min ⁻¹	42 MPa
Elongation at break	ISO 527 (Type 5A)	XYZ	500 mm min ⁻¹	200 %
Tear strength	ISO 34	YXZ	500 mm min ⁻¹	42 kN m ⁻¹
Shore hardness	ISO 868	XYZ	A	85
Bayshore rebound resilience	ASTM D2632	XYZ	-	33 %
Ross flex fatigue notched*	ASTM D1052	YXZ	100 min ⁻¹ , 60°, 23 °C 100 min ⁻¹ , 60°, -10 °C	>400K cycles >400K cycles
Glass transition temperature	-	XYZ	DMA (tanδ _{max}), 5 K min ⁻¹	-31 °C

Physical data

Density	ISO 1183	XYZ	-	1.15 g cm ⁻³
Water uptake	ISO 62	XYZ	24 h 30 d	0.7 % 1.6 %

*No heat treatment prior to measurement.

Print orientation according to ASTM/ISO 52921.

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