

Evolution HI



Your photopolymer of choice for snap-fits, fittings, and cases. Thanks to its high impact strength, parts and objects made from Evolution HI absorb a lot of energy. This means that this material is ideal for robust products which need to endure stress every day. Consequently, even connectors that are opened and closed again and again can be manufactured additively.

Mechanical properties

Property	Standard	Print orientation	Experimental condition	Result
Tensile strength	ISO 527 (Type 5A)	XYZ	10 mm min ⁻¹	53 MPa
Young's Modulus	ISO 527 (Type 5A)	XYZ	1 mm min ⁻¹	2150 MPa
Elongation at break	ISO 527 (Type 5A)	XYZ	10 mm min ⁻¹	35 %
Flexural strength	ISO 178	XZY	10 mm min ⁻¹	88 MPa
Flexural modulus	ISO 178	XZY	2 mm min ⁻¹	1840 MPa
Charpy unnotched	ISO 179-1/1eU	XYZ	5 J	72 kJ m ⁻²
Izod notched	ASTM D 256	XYZ	5.5 J	53 J m ⁻¹
Shore hardness	ISO 868	XYZ	D	82
HDT A	ISO75	XZY	@ 1.8 MPa	59 °C
HDT B	ISO75	XZY	@ 0.46 MPa	80 °C

Physical data

Density	ISO 1183	XYZ	-	1.20 g cm ⁻³
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Fire resistance

Flammability	UL 94	YZX	1.00 mm	HB
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Print orientation according to ASTM/ISO 52921.



Technical Data

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The results presented in this technical data sheet were achieved on a Cubicure Caligma 200 printer (405 nm laser) after being processed and postprocessed according to Cubicure protocols. This information is based on our present state of knowledge, is provided in good faith, and is intended to provide general notes on our products and their uses. This information does not represent a warranty and Cubicure excludes any liability and responsibility for the product or any damages or loss of profit derived from the product. The assessment, testing, and selection of a product for a purpose or application as well as the compliance with third party and industrial property rights lie solely within the responsibility of the customer. Cubicure reserves the right to change any information in the technical data sheet as well as underlying protocols, processes, and formulations at any time without further notice.

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