

Technical Data

Precision



Cubicure's micro manufacturing material with an eye for detail pairs highest precision with outstanding strength. This photopolymer was developed to ensure precise production of minute details on a micro level.

Mechanical properties

Property	Standard	Print orientation	Experimental condition	Result
Tensile strength	ISO 527 (Type 5A)	XYZ	10 mm min ⁻¹	68 MPa
Young's Modulus	ISO 527 (Type 5A)	XYZ	1 mm min ⁻¹	2700 MPa
Elongation at break	ISO 527 (Type 5A)	XYZ	10 mm min ⁻¹	7 %
Flexural strength	ISO 178	XZY	10 mm min ⁻¹	105 MPa
Flexural modulus	ISO 178	XZY	2 mm min ⁻¹	2600 MPa
Charpy unnotched	ISO 179-1/1eU	XYZ	5 J	11 kJ m ⁻²
Izod notched	ASTM D 256	XYZ	5.5 J	26 J m ⁻¹
Shore hardness	ISO 868	XYZ	D	86
HDT A	ISO75	XZY	@ 1.8 MPa	66 °C
HDT B	ISO75	XZY	@ 0.46 MPa	90 °C

Physical data

Density	ISO 1183	XYZ	-	1.17 g cm⁻³



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Fire resistance

Property	Standard	Print orientation	Experimental condition	Result
Flammability	UL 94	YZX	1.00 mm	НВ
Electrical data				
Dielectric constant (ϵ_{r})	IEC 60250	YZX	50 Hz 1 kHz 1 MHz	2.99 2.93 3.25
Dissipation factor (tanδ)	IEC 60250	YZX	50 Hz 1 kHz 1 MHz	0.0138 0.0113 0.0343

Print orientation according to ASTM/ISO 52921.

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