

Cubic Ink® Dental 501 VP

Model material for the dental industry with scalable pricing, excellent printability and high scratch resistance

Liquid Properties	Value¹	Unit
Viscosity @ 25 °C (DIN EN ISO 3219)	47	mPa·s
Critical Energy (E _c) @ 385 nm	4.7	mJ/cm ²
Depth of Penetration (D _p) @ 385 nm	0.12	mm
Tensile Properties² (DIN EN ISO 527-5A)		
Ultimate Tensile Strength	48	MPa
Tensile Modulus	2500	MPa
Elongation at Break	5	%
Flexural Properties³ (DIN EN ISO 178)		
Flexural Strength	77	MPa
Flexural Modulus	1800	MPa
Deflection at Fracture	8	%
Hardness (DIN EN ISO 7619)		
Shore Hardness	81	D
Thermal Properties (DIN EN ISO 75)		
HDT B	67	°C
Print Appearance/ Color		
Default color is amber/yellow. More colors on request.		

Availability and Storage

Batch size starting from 1 kg.

Store at room temperature and protect from light. Stir prior to use to ensure a homogenous pigment distribution.

¹Properties with post-processing: Washing 2-4 min in IPA and post-curing with 2x 3000 flashes of Otofash® G171-6 under N₂ atmosphere (10 flashes per sec, 200 W of light with a range between 300-700 nm). All material properties may vary with choice of printer, print settings, object orientation, part geometry, post-processing and age of sample. ²5 mm/min; ³5 mm/min.

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