

## Cubic Ink® Dental 501 VP

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

<b>Liquid Properties</b>	<b>Value<sup>1</sup></b>	<b>Unit</b>
Viscosity @ 25 °C (DIN EN ISO 3219)	47	mPa·s
Critical Energy (E <sub>c</sub> ) @ 385 nm	4.7	mJ/cm <sup>2</sup>
Depth of Penetration (D <sub>p</sub> ) @ 385 nm	0.12	mm
<b>Tensile Properties<sup>2</sup> (DIN EN ISO 527-5A)</b>		
Ultimate Tensile Strength	48	MPa
Tensile Modulus	2500	MPa
Elongation at Break	5	%
<b>Flexural Properties<sup>3</sup> (DIN EN ISO 178)</b>		
Flexural Strength	77	MPa
Flexural Modulus	1800	MPa
Deflection at Fracture	8	%
<b>Hardness (DIN EN ISO 7619)</b>		
Shore Hardness	81	D
<b>Thermal Properties (DIN EN ISO 75)</b>		
HDT B	67	°C
<b>Print Appearance/ Color</b>		
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.

<sup>1</sup>Properties with post-processing: Washing 2-4 min in IPA and post-curing with 2x 3000 flashes of Otofash® G171-6 under N<sub>2</sub> 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. <sup>2</sup>5 mm/min; <sup>3</sup>5 mm/min.

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