

# Cubic Ink® Dental 500 VP Yellow

Model material for the dental industry with scalable pricing, excellent printability and high scratch resistance in the color of your choice

<b>Liquid Properties</b>	<b>Value<sup>1</sup></b>	<b>Unit</b>
Viscosity @ 25 °C (DIN EN ISO 3219)	53	mPa·s
Density (DIN EN ISO 15212-1)	1.07	g/mL
Critical Energy (E <sub>c</sub> ) @405 / 385 nm	4.2 / 6.3	mJ/cm <sup>2</sup>
Depth of Penetration (D <sub>p</sub> ) @405 / 385 nm	0.21 / 0.21	mm
<b>Tensile Properties<sup>2</sup> (DIN EN ISO 527-5A)</b>		
Ultimate Tensile Strength	42	MPa
Tensile Modulus	2300	MPa
Elongation at Break	2.7	%
<b>Flexural Properties<sup>3</sup> (DIN EN ISO 178)</b>		
Flexural Strength	71	MPa
Flexural Modulus	1900	MPa
Deflection at Fracture	7.2	%
<b>Impact Properties (DIN EN ISO 180)</b>		
Izod notched	13	J/m
<b>Hardness</b>		
Shore Hardness (DIN EN ISO 7619)	77	D
Scratch Resistance <sup>4</sup> (ISO 4586-2)	Category B up to 29 N	
<b>Thermal Properties (DIN EN ISO 75)</b>		
HDT B	55	°C

## Print Appearance/ Color

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Yellow. More colors on request.

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## Availability and Storage

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Batch sizes starting from 1 kg.

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Store at room temperature and protect from light.

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<sup>1</sup>Properties with post-processing: Washing 2-4 min in IPA and post-curing with 2x 2000 flashes of Otoflash<sup>®</sup> 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 can vary with 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; <sup>4</sup>Measured with 0.5 mm tungsten carbide tip of Elcometer 3092 sclerometer.

### Cubic Ink<sup>®</sup>

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Learn more about Cubic Ink<sup>®</sup> materials [www.altana.com/cubic-ink](http://www.altana.com/cubic-ink) [www.altana.de/cubic-ink](http://www.altana.de/cubic-ink)

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