

Cubic Ink® Dental 3000 VP Light Tan

Model material for the dental industry with scalable pricing and excellent printability with layers of up to 150 microns

Liquid Properties	Method	Value ¹	Unit
Viscosity (25 °C)	DIN EN ISO 3219	710	mPa·s
Density	DIN EN ISO 15212-1	1.10	g/mL
Critical Energy (E _c)	405 nm / 385 nm	3.9 / 4.7	mJ/cm ²
Depth of Penetration (D _p)	405 nm / 385 nm	0.19 / 0.12	mm
Tensile Properties			
Ultimate Tensile Strength	DIN EN ISO 527-5A ²	51	MPa
Tensile Modulus	DIN EN ISO 527-5A ²	2500	MPa
Elongation at Break	DIN EN ISO 527-5A ²	7.0	%
Flexural Properties			
Flexural Strength	DIN EN ISO 178 ²	83	MPa
Flexural Modulus	DIN EN ISO 178 ²	2200	MPa
Deflection at Fracture	DIN EN ISO 178 ²	>10	%
Hardness			
Shore Hardness	DIN EN ISO 7619	85	D
Thermomechanical Properties			
HDT B	DIN EN ISO 75	70	°C
Other Properties			
In-vitro cytotoxicity ³	DIN EN ISO 10993-5/-12 ⁴	Passed	-
Color, Storage, Compatibility			
Color is Light Tan. Additional colors available on request. Natural color is translucent light yellow.			
For best performance, use within 12 months of manufacturing date. Store at room temperature and protect from light. Stir prior to use.			
Cubic Ink Dental 3000 VP is compatible with Cubic Ink Cleaner 400.			
¹ Properties may vary with post-processing – 2 x 2000 flashes via <i>Otoflash G171-6</i> (350 – 550 nm) under N ₂ atmosphere. All material properties can vary with color, printer, print settings, object orientation, part geometry, post-processing and age of sample. Properties in TDS are measured on light tan resin. ² 5 mm/min; ³ 2 x 6000 flashes via <i>Otoflash G171-6</i> (350 – 550 nm) under N ₂ atmosphere; ⁴ Testing at 22 °C, 61% rel. humidity, duration of extraction 24 h at 37 °C.			

Chemical Resistance	Mass Gain [%] ¹
Water	0.2
Acetic Acid (5%)	0.1
Hydrochloric Acid (1%)	0.1
Nitric Acid (5%)	0.2
Sodium Hypochlorite (10%)	0.1
Hydrogen Peroxide (3%)	0.2
Sodium Hydroxide (1%)	0.1
Isopropyl Alcohol	<0.1
Methanol	1.4
Butyl Glycol Acetate	<0.1
Super Gasoline	0.2
Acetone	2.5
Methyl Ethyl Ketone	1.7

¹Percental weight gained after 24 h submersion of printed and post-cured (2 x 30 min UV post-cure via *Formlabs Formcure L* at 80 °C, LED, 375 and 405 nm) 1 x 1 x 1 cm³ cubes.

Cubic Ink®
ALTANA New Technologies GmbH

located at

ACTEGA GmbH
Mielestraße 13
31275 Lehrte
GERMANY

Tel +49 (0)5132 5009-600
Cubic.ink@altana.com
www.altana.com

Learn more about Cubic Ink® materials
www.altana.com/cubic-ink
www.altana.de/cubic-ink

Disclaimer

The information contained herein is based on our current knowledge and experience. No warranties, guarantees and/or assurances of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. Any information about suitability, use or application of the products is non-binding and does not constitute a commitment regarding the products' properties, use or application. Contractual terms and conditions, in particular agreed product specifications, always take precedence. We recommend that you test our products in preliminary trials to determine their suitability for your intended purpose prior to use. We reserve the right to make any changes and to update the information herein without notice.

Follow us – ALTANA New Technologies GmbH – Cubic Ink®

