

## Cubic Ink® Rigid 300 VP

Functional prototyping material for industrial applications

Liquid Properties	Value <sup>1</sup>	Unit
Viscosity @ 25 °C (DIN EN ISO 3219)	185	mPa·s
Density (DIN EN ISO 15212-1)	1.05	g/mL
<b>Tensile Properties<sup>2</sup> (DIN EN ISO 527-5A)</b>		
Ultimate Tensile Strength	57	MPa
Yield Strength	57	MPa
Tensile Modulus	2600	MPa
Elongation at Break	4.3	%
<b>Flexural Properties<sup>3</sup> (DIN EN ISO 178)</b>		
Flexural Strength	82	MPa
Flexural Modulus	2300	MPa
Deflection at Fracture	>3.5	%
<b>Impact Properties</b>		
Izod notched (DIN EN ISO 180)	15	J/m
Charpy notched (DIN EN ISO 179-1)	2.0	kJ/m <sup>2</sup>
<b>Hardness (DIN EN ISO 7619)</b>		
Shore Hardness	82	D
<b>Thermal Properties</b>		
HDT B (DIN EN ISO 75)	59	°C

### Thermal Ageing<sup>4</sup>

80 °C for 3000 hours	2	%
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### Print Appearance/ Color

Natural color is translucent light yellow. Also available in cyan, magenta, yellow, black, white and grey. More colors on request.

### Availability and Storage

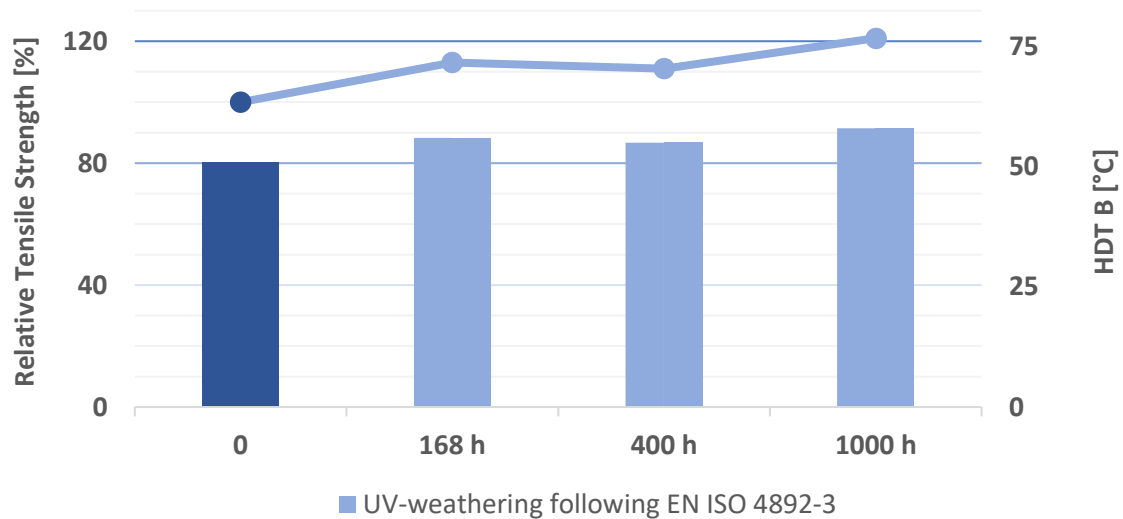
Batch sizes starting from 1 kg.

Store at room temperature and protect from light.

<sup>1</sup>Properties with post-processing – 60 min low-intensity UV-post-cure at 405 nm (LED). 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>Relative loss of tensile strength compared to reference, DIN EN ISO 527-5A, 5 mm/min.

### UV Ageing of Cubic Ink® Rigid-series

(points - rel. tensile strength & bars - HDT B)



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**Learn more about Cubic Ink® 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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