

Cubic Ink® Flexible 1400 VP

Very soft functional prototyping material with a Shore hardness of A 30

Liquid Properties	Value ¹	Unit
Viscosity @ 25 °C (DIN EN ISO 3219)	120	mPa·s
Density (DIN EN ISO 15212-1)	1.05	g/mL
Critical Energy (E _c) @405 nm	3.1	mJ/cm ²
Depth of Penetration (D _p) @405 nm	0.18	mm
Tensile Properties² (DIN EN ISO 527-5A)		
Ultimate Tensile Strength	2.6	MPa
Elongation at Break	160	%
Tensile Strength at 50% elongation	0.5	MPa
Tensile Strength at 100% elongation	1.0	MPa
Tear Strength (DIN EN ISO 34-1 B) ³	32	kN/m
Compression Properties (DIN EN ISO 815-1)⁴		
Compression Set-B after 22h @23 °C	< 5	%
Compression Set-B after 22h @70 °C	< 5	%
Rebound Properties⁴ (DIN 53512)		
Schob-Pendulum @23 °C	4	%
Hardness (DIN EN ISO 7619)		
Shore Hardness	30	A

Print Appearance/ Color

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

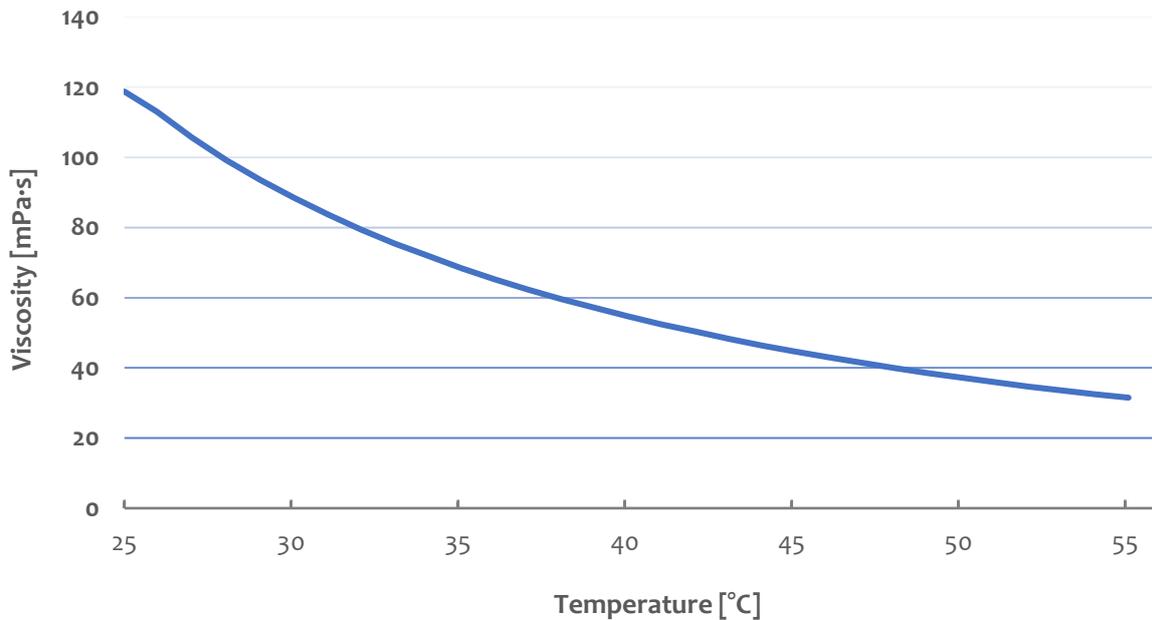
Availability and Storage

Batch sizes starting from 1 kg.

Store at room temperature and protect from light.

¹Properties with post-processing – 2 x 3000 light flashes under N₂ atmosphere. All material properties can vary with printer, print settings, object orientation, part geometry, post-processing and age of sample. ²50 mm/min; ³500 mm/min, notched specimen method B; ⁴Specimen with 12.5 mm height.

Viscosity Profile (600 s⁻¹) of Flexible 1400 VP



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