

Cubic Ink® Rigid 700

Rigid material for fast, accurate prints with sharp edges

Liquid Properties	Value ¹	Unit
Viscosity @ 50 °C (DIN EN ISO 3219)	38	mPa·s
Surface Tension (Dynamic Bubble Pressure)	36	mN/m
Tensile Properties² (DIN EN ISO 527-5A)		
Ultimate Tensile Strength	55	MPa
Tensile Modulus	2700	MPa
Elongation at Break	4.4	%
Flexural Properties³ (DIN EN ISO 178)		
Flexural Strength	93	MPa
Flexural Modulus	2500	MPa
Impact Properties (DIN EN ISO 180)		
Izod unnotched	360	J/m
Hardness (DIN EN ISO 7619)		
Shore Hardness	85	D
Thermal Properties (DIN EN ISO 75)		
HDT B	55	°C
Chemical Resistance		
Water Uptake, 24 h, 23 °C	< 0.1	%
Thermal Ageing⁴		
120 °C for 3000 hours	< 1	%

Print Appearance/ Color

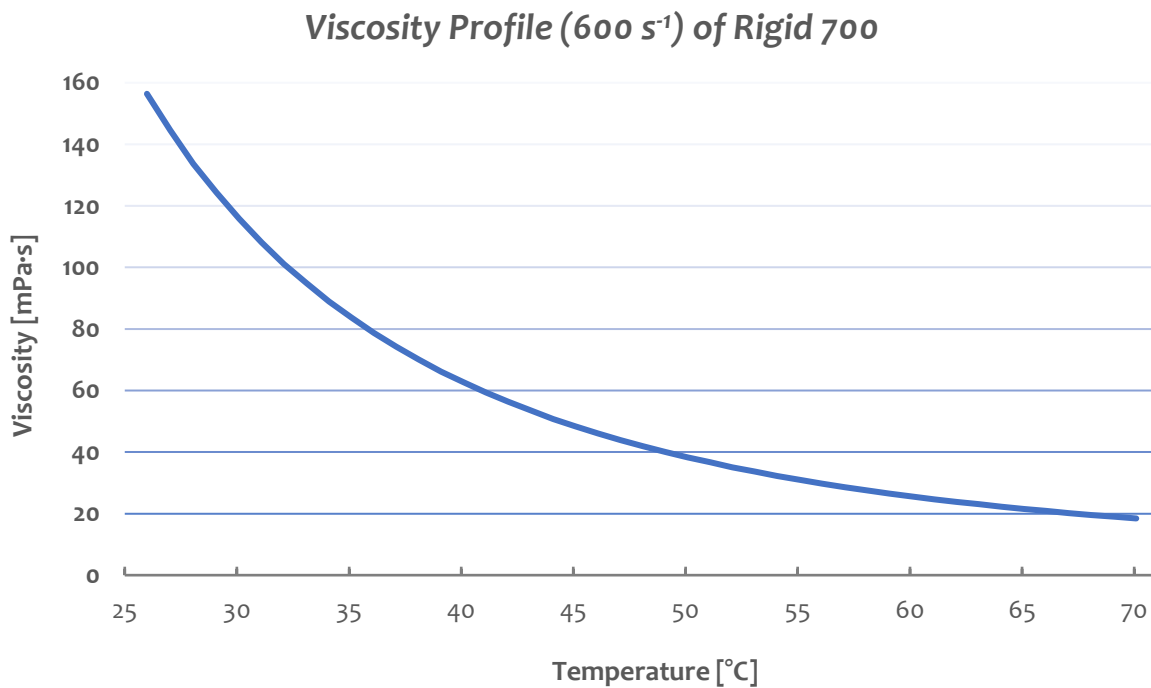
Natural color is translucent light yellow. Also available in cyan, magenta, yellow, black, white and grey. More colors on request.

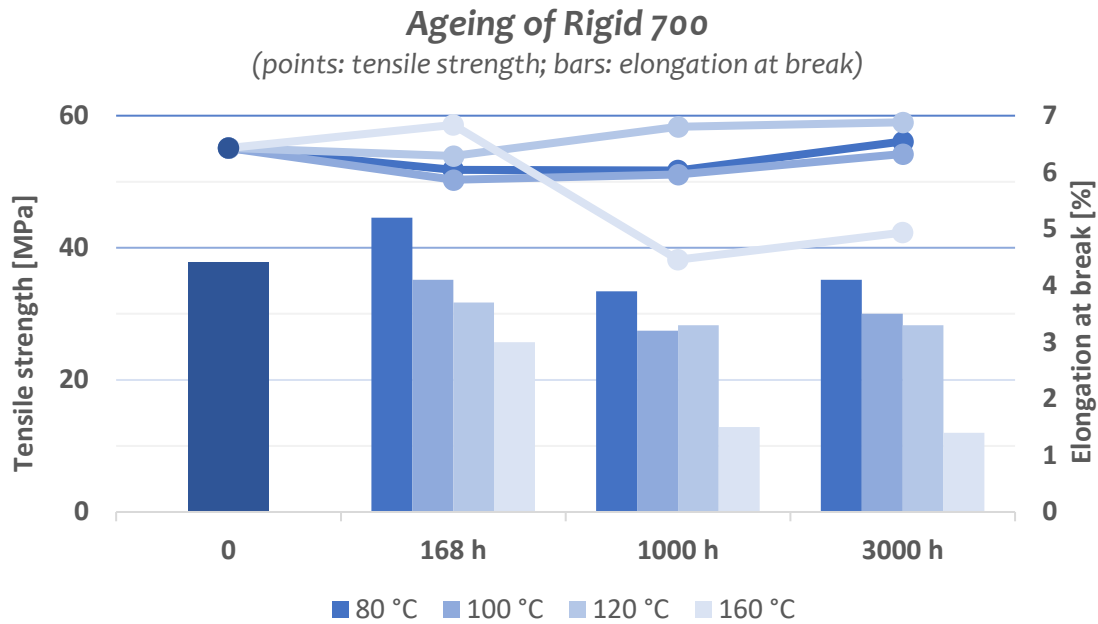
Availability and Storage

Batch sizes starting from 1 kg.

Store at room temperature and protect from light.

¹Properties with post-processing – 60 min UV-post-cure. All material properties can vary with printer, print settings, object orientation, part geometry, post-processing and age of sample. ²5 mm/min; ³5 mm/min; ⁴Relative loss of tensile strength compared to reference, DIN EN ISO 527-5A, 5 mm/min.





Chemical Resistance

Mass Gain [%]¹

Water	< 0.1
Acetic Acid (5%)	< 0.1
Hydrochloric Acid (1%)	< 0.1
Nitric Acid (5%)	< 0.1
Sodium Hypochlorite (10%)	< 0.1
Hydrogen Peroxide (3%)	< 0.1
Sodium Hydroxide (1%)	< 0.1
Isopropyl Alcohol	0.5
Methanol	2.6
Butyl Glycol Acetate	0.4
Super Gasoline	2.0
Acetone	7.1
Methyl Ethyl Ketone	7.2

¹Percental weight gained after 24 h submersion of printed 1 x 1 x 1 cm³ cubes.

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