

# Technical Data Sheet

## Ultracur3D® RG 35

Reactive Urethane Photopolymer

General Properties	Norm	Typical Values
Viscosity, 30 °C	Cone/Plate Rheometer <sup>1</sup>	583 mPas
Viscosity, 50 °C	Cone/Plate Rheometer <sup>1</sup>	154 mPas
Density	ASTM D792	1.2 g/cm <sup>3</sup>
Density (liquid resin)	ASTM D4052-18a	1.12 g/cm <sup>3</sup>

Tensile Properties	Norm	Typical Values
E Modulus	ASTM D638	2607 MPa
Ultimate Tensile Strength	ASTM D638	79 MPa
Elongation at Break	ASTM D638	6 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	2420 MPa
Flexural Strength	ASTM D790	108 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), -30 °C	ASTM D256	11.96 J/m
Notched Izod (Machined), 23 °C	ASTM D256	10.88 J/m
Charpy notched, 23 °C	ISO 179-1	0.68 kJ/m <sup>2</sup>

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	83 °C
HDT at 1.82 MPa	ASTM D648	64 °C
Flammability	UL 94 1.5 mm	HB
Glow-wire Test	DIN EN 60695-2-11	GWFI: 650 / 2.0

Hardness	Norm	Typical Values
Shore D	ASTM D2240	87

Other	Norm	Typical Values
Biocompatibility	ISO 10993	Information available on request

1) Determined with TA-Instrument DHR rheometer, cone/plate, diameter 60 mm, shear rate 100 s<sup>-1</sup>

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