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Technical Data Sheet

Ultracur3D[®] RG 35

Reactive Urethane Photopolymer

General Properties	Norm	Typical Values
Viscosity, 30 °C	Cone/Plate Rheometer ¹	583 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	154 mPas
Density	ASTM D792	1.2 g/cm ³
Density (liquid resin)	ASTM D4052-18a	1.12 g/cm ³
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 ²
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	
Biocompatibility	ISO 10993	Information available on request

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

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