

Technical Data Sheet

Ultracur3D[®] RG 1100 B

Rigid resin with superior stiffness and temperature resistance

General Properties	Norm	Typical Values
Appearance	-	Black
Viscosity, 30 °C	Cone/Plate Rheometer ¹	190 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	60 mPas
Density (printed part)	ASTM D792	1.2 g/cm ³
Density (liquid resin)	ASTM D4052-18a	1.11 g/cm ³

Tensile Properties	Norm (5 mm/min)	Typical Values
E Modulus	ASTM D638	2950 MPa
Ultimate Tensile Strength	ASTM D638	70 MPa
Elongation at Break	ASTM D638	5 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	2790 MPa
Flexural Strength	ASTM D790	125 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), 23 °C	ASTM D256	14 J/m
Unnotched Izod, 23 °C	ASTM D256	176 J/m
Charpy notched, 23 °C	ISO 179-1	1.11 kJ/m ²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	100 °C
HDT at 1.82 MPa	ASTM D648	78 °C
Flammability	UL 94 1.5 mm	HB

Hardness	Norm	Typical Values
Shore D	ASTM D2240	84

Other	Norm	Typical Values
Water Absorption, Short Term (24 hours)	ASTM D570	0.42 %

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



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