

Technical Data Sheet

Ultracur3D[®] EL 60

Flexible resin with quick elastic response and low hardness.

General Properties	Norm	Typical Values
Appearance	-	Clear
Viscosity, 30 °C	Cone/Plate Rheometer ¹	3400 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	900 mPas
Density (printed part)	ASTM D792	1.12 g/cm ³
Density (liquid resin)	ASTM D4052-18a	1.08 g/cm ³

Tensile Properties	Norm (500 mm/min)	Typical Values
Ultimate Tensile Strength	ASTM D412 C	9 MPa
Elongation at Break	ASTM D412 C	95 %

Impact Properties	Norm	Typical Values
Unnotched Izod, 23 °C	ASTM D256	No break

Mechanical Properties	Norm	Typical Values
Tear Strength (Graves)	ASTM D624 type C	18 N/mm
Tear Strength (Trouser)	ASTM D624 type T	3 kN/m
Rebound Resilience	ASTM D7121	21 %
Relative Abrasion Loss	ISO 4649	781 mm ³
Compression set at 23°C, 72h	ASTM D395-A	3 %
Compression set at 23°C, 72h	ASTM D395-B	9 %
Rossflex, 23°C, 60° angle	ASTM D1052	Failed after 20.000 Cycles
Rossflex, -10°C, 60° angle	ASTM D1052	Failed after 10.000 Cycles

Thermal Properties	Norm	Typical Values
Glass transition temperature (DMA, tan(d))	ASTM D4065	29 °C

Hardness	Norm	Typical Values
Shore A	ASTM D2240	75

Other	Norm	Typical Values
Biocompatibility	ISO 10993	Information available on request
Water Absorption, Short Term (24 hours)	ASTM D570	0.60 %

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

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