

Technical Data Sheet

Ultracur3D® FL 60

Flexible resin with optimum haptics and low hardness.

General Properties	Norm	Typical Values
Appearance	-	Clear
Viscosity, 30 °C	Cone/Plate Rheometer ¹	400 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	150 mPas
Density (printed part)	ASTM D792	1.16 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	4 MPa
Elongation at Break	ASTM D412 C	90 %

Mechanical Properties	Norm	Typical Values
Tear Strength (Graves)	ASTM D624 type C	9 N/mm
Tear Strength (Trouser)	ASTM D624 type T	2 kN/m
Rebound Resilience	ASTM D7121	11 %
Relative Abrasion Loss	ISO 4649	695 mm ³
Compression set at 23°C, 72h	ASTM D395-A	0.5 %
Compression set at 23°C, 72h	ASTM D395-B	0 %

Thermal Properties	Norm	Typical Values
Glass transition temperature (DMA, tan(d))	ASTM D4065	25 °C
Vicat temperature	ASTM D1525	59 °C

Hardness	Norm	Typical Values
Shore A	ASTM D2240	60

Other	Norm	Typical Values
Biocompatibility	ISO 10993	Information available on request
Water Absorption, Short Term (24 hours)	ASTM D570	1.45 %

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

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