

## Technical Data Sheet

# Ultracur3D<sup>®</sup> EL 4000 B

Flexible resin with superior strength, rebound and high hardness

General Properties	Norm	Typical Values
Appearance	-	Black / translucent Black
Viscosity, 30 °C	Cone/Plate Rheometer <sup>1</sup>	360 mPas
Viscosity, 50 °C	Cone/Plate Rheometer <sup>1</sup>	150 mPas
Density (printed part)	ASTM D792	1.13 g/cm <sup>3</sup>
Density (liquid resin)	ASTM D4052-18a	1.06 g/cm <sup>3</sup>

Tensile Properties	Norm (500 mm/min)	Typical Values
E Modulus	ASTM D412 C	70 MPa
Ultimate Tensile Strength	ASTM D412 C	11 MPa
Elongation at Break	ASTM D412 C	120 %

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	49 N/mm
Rebound Resilience	ASTM D7121	26 %
Relative Abrasion Loss	ISO 4649	254 mm <sup>3</sup>
Compression set at 23°C, 72h	ASTM D395-A	7 %
Compression set at 23°C, 72h	ASTM D395-B	58 %

Hardness	Norm	Typical Values
Shore A	ASTM D2240	84

Other	Norm	Typical Values
Water Absorption, Short Term (24 hours)	ASTM D570	2.1 %

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

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