

Technical Data Sheet

Ultracur3D[®] EL 150

Flexible resin with optimum strength, rebound and medium hardness.

General Properties	Norm	Typical Values
Appearance	-	Clear
Viscosity, 30 °C	Cone/Plate Rheometer ¹	90 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	45 mPas
Density (printed part)	ASTM D792	1.10 g/cm ³
Density (liquid resin)	ASTM D4052-18a	1.04 g/cm ³

Tensile Properties	Norm (500 mm/min)	Typical Values
E Modulus	ASTM D412 C	16 MPa
Ultimate Tensile Strength	ASTM D412 C	7 MPa
Elongation at Break	ASTM D412 C	182 %

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	14 N/mm
Rebound Resilience	ASTM D7121	28 %
Relative Abrasion Loss	ISO 4649	Information available on request
Compression set at 23°C, 72h	ASTM D395-A	11 %
Compression set at 23°C, 72h	ASTM D395-B	55 %
Rossflex, 23°C, 60° angle	ASTM D1052	> 100.000 Cycles (no crack propagation)
Rossflex, -10°C, 60° angle	ASTM D1052	> 100.000 Cycles (no crack propagation)

Thermal Properties	Norm	Typical Values
Glass transition temperature (DMA, tan(d))	ASTM D4065	-32 °C
Vicat temperature	ASTM D1525	80 °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	1.27 %

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

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. The safety data given in this publication is for information purposes only and does not constitute a legally binding MSDS. The relevant MSDS can be obtained upon request from your supplier or you may contact BASF 3D Printing Solutions GmbH directly at sales@basf-3dps.com. Version 4.0