



Technical Data Sheet

Ultimate Tensile Strength

Ultracur3D® ST 45 M

57.7 MPa

Reactive Urethane Photopolymer

Norm	Typical Values
Cone/Plate Rheometer ¹	230 mPas
Cone/Plate Rheometer ¹	85 mPas
ASTM D792	1.2 g/cm ³
ASTM D4052-18a	1.12 g/cm ³
Norm	Typical Values
ASTM D638	2260 MPa
	Cone/Plate Rheometer ¹ Cone/Plate Rheometer ¹ ASTM D792 ASTM D4052-18a Norm

Elongation at Break	ASTM D638	19.6 %
Flexural Properties	Norm	Typical Values

ASTM D638

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	2230 MPa
Flexural Strength	ASTM D790	99.5 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), -30 °C	ASTM D256	19.65 J/m
Notched Izod (Machined), 23 °C	ASTM D256	19.74 J/m
Charpy notched, 23 °C	ISO 179-1	2.78 kJ/m²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	67.2 °C
HDT at 1.82 MPa	ASTM D648	57.8 °C
Flammability	UV 94 1.5 mm	НВ

Hardness	Norm	Typical Values
Shore D	ASTM D2240	81

Other	Norm	
Biocompatibility	ISO 10993	Information available on request

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

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