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Technical Data Sheet

Ultracur3D[®] ST 45 M

Tough | Precision | Clear

Norm	Typical Values
-	Clear
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
	- Cone/Plate Rheometer ¹ Cone/Plate Rheometer ¹ ASTM D792

Tensile Properties	Norm (5 mm/min)	Typical Values
E Modulus	ASTM D638	2300 MPa
Ultimate Tensile Strength	ASTM D638	58 MPa
Elongation at Break	ASTM D638	20 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	2200 MPa
Flexural Strength	ASTM D790	100 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), -30 °C	ASTM D256	19 J/m
Notched Izod (Machined), 23 °C	ASTM D256	19 J/m
Charpy notched, 23 °C	ISO 179-1	2.7 kJ/m ²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	67 °C
HDT at 1.82 MPa	ASTM D648	57 °C
Flammability	UL 94 1.5 mm	HB

Hardness	Norm	Typical Values
Shore D	ASTM D2240	80

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