

Technical Data Sheet

Ultracur3D® EPD 3500

Strong daylight resin with superior strength and stiffness.

General Properties	Norm	Typical Values
Appearance	-	Amber
Viscosity, 30 °C	Cone/Plate Rheometer ¹	600 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	160 mPas
Density (printed part)	ASTM D792	1.18 g/cm ³

Tensile Properties	Norm (5 mm/min)	Typical Values
E Modulus	ASTM D638	2500 MPa
Ultimate Tensile Strength	ASTM D638	60 MPa
Elongation at Break	ASTM D638	18 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	2400 MPa
Flexural Strength	ASTM D790	110 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), 23 °C	ASTM D256	25 J/m
Unnotched Izod, 23 °C	ASTM D256	600 J/m
Charpy notched, 23 °C	ISO 179-1	1.5 kJ/m ²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	70 °C
HDT at 1.82 MPa	ASTM D648	57 °C

Hardness	Norm	Typical Values
Shore D	ASTM D2240	79

Other	Norm	Typical Values
Water Absorption, Short Term (24 hours)	ASTM D570	0.5 %

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

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