

Technical Data Sheet

Ultracur3D® EPD 1086

Multi-purpose daylight resin targeting the
lowest cost per part.

General Properties	Norm	Typical Values
Appearance	-	Black
Viscosity, 30 °C	Cone/Plate Rheometer ¹	450 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	130 mPas
Density (printed part)	ASTM D792	1.18 g/cm ³

Tensile Properties	Norm (5 mm/min)	Typical Values
E Modulus	ASTM D638	1810 MPa
Ultimate Tensile Strength	ASTM D638	42 MPa
Elongation at Break	ASTM D638	26 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	1620 MPa
Flexural Strength	ASTM D790	67 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), 23 °C	ASTM D256	28 J/m
Unnotched Izod, 23 °C	ASTM D256	606 J/m
Charpy notched, 23 °C	ISO 179-1	2.6 kJ/m ²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	53 °C
HDT at 1.82 MPa	ASTM D648	46 °C
Flammability	UL 94 1.5 mm	HB

Hardness	Norm	Typical Values
Shore D	ASTM D2240	81

Other	Norm	Typical Values
Water Absorption, Short Term (24 hours)	ASTM D570	0.23 %

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

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