

Technical Data Sheet

Ultracur3D® EPD 2006

Daylight | Rigid | Black

General Properties	Norm	Typical Values
Appearance	-	Black
Viscosity, 30 °C	Cone/Plate Rheometer ¹	310 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	88 mPas
Density	ASTM D792	1.2 g/cm ³

Tensile Properties	Norm (5 mm/min)	Typical Values
E Modulus	ASTM D638	2370 MPa
Ultimate Tensile Strength	ASTM D638	50 MPa
Elongation at Break	ASTM D638	10.3 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	2210 MPa
Flexural Strength	ASTM D790	90 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), -30 °C	ASTM D256	11 J/m
Notched Izod (Machined), 23 °C	ASTM D256	11 J/m
Charpy notched, 23 °C	ISO 179-1	0.7 kJ/m ²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	81 °C
HDT at 1.82 MPa	ASTM D648	61 °C
Flammability	UL 94 1.5 mm	HB

Hardness	Norm	Typical Values
Shore D	ASTM D2240	80

Other	Norm	Typical Values
Water Absorption, Short Term (24 hours)	ASTM D570	0.61 %

Detailed material data and support for FEA simulations available on request (sales@basf-3dps.com)

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

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