FORWARD AM
Innovating Additive Manufacturing

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Technical Data Sheet

Ultracur3D® FL 300

Flexible resin with superior elongation and softness.

General Properties	Norm	Typical Values
Apperance	-	Clear
Viscosity, 30 °C	Cone/Plate Rheometer[1]	160 mPas
Viscosity, 50 °C	Cone/Plate Rheometer[1]	75 mPas
Density (printed part)	ASTM D792	1.07 g/cm3
Density (liquid resin)	ASTM D4052-18a	1.01 g/cm3

Tensile Properties	Norm	Typical Values
Ultimate Tensile Strength	ASTM D412 C	5 MPa
Elongation at Break	ASTM D412 C	245 %

Mechanical Properties	Norm	Typical Values
Tear Strength (Graves)	ASTM D624 type C	9 N/mm
Rebound Resilience	ASTM D1054	16 %
Compression set at 23°C, 72h	ASTM D395-B	31%

Hardness	Norm	Typical Values
Shore A	ASTM D2240	40

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

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