

Technical Data Sheet

Ultracur3D® DMD 1005

Dental daylight resin, ideal for dental models and molds

General Properties	Norm	Typical Values
Appearance	-	Beige
Viscosity, 30 °C	Cone/Plate Rheometer ¹	110 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	40 mPas
Density (printed part)	ASTM D792	1.5 g/cm ³

Tensile Properties	Norm	Typical Values
E Modulus	ASTM D638	2710 MPa
Ultimate Tensile Strength	ASTM D638	60 MPa
Elongation at Break	ASTM D638	4 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	2400 MPa
Flexural Strength	ASTM D790	85 MPa

Impact Properties	Norm	Typical Values
Unnotched Izod (Machined), 23 °C	ASTM D256	10 J/m
Notched Izod (Machined), 23 °C	ASTM D256	1.6 J/m
Charpy notched, 23 °C	ISO 179-1	1.1 kJ/m ²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	93 °C
HDT at 1.82 MPa	ASTM D648	73 °C

Hardness	Norm	Typical Values
Shore D	ASTM D2240	80

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

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