

# DPR 10

**DPR 10 is a production-grade material suitable for manufacturing dental models and other applications where high accuracy is needed.**

Tensile Properties	Test Standard	Metric	US
Tensile Modulus	ASTM D638 Type V 10 mm/min	1800 MPa	260 ksi
Ultimate Tensile Strength		45 MPa	6 ksi
Elongation at Break		4%	4%

Flexural Properties	Test Standard	Metric	US
Flexural Stress at 5% strain	ASTM D790-B	80 MPa	11 ksi
Flexural Modulus (Chord, 0.5-1%)		2000 MPa	290 ksi

Impact Properties	Test Standard	Metric	US
Notched Izod (Machined)	ASTM D256	20 J/m	0.4 ft-lb/in
Notched Charpy (Machined)	ISO 179-1/1eA	1.7 kJ/m <sup>2</sup>	0.8 ft-lb/in <sup>2</sup>

Thermal Properties	Test Standard	Metric	US
Heat Deflection Temperature at 0.455 MPa/66 psi	ASTM D648	60 °C	140 °F
Heat Deflection Temperature at 1.82 MPa/264 psi		45 °C	113 °F

Liquid Properties	
Liquid Density	1.11 g/mL
25 °C Viscosity	1700 cP

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Parts were processed using an M series printer and a Smart Part Washer with VF 1 as the solvent. Sample were post-cured with a Dreve PCU LED or Dreve PCU 90 models.