

# DPR 10

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

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

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

<b>Impact Properties</b>	<b>Metric</b>	<b>US</b>
Notched Izod (Machined), 23 °C, 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>

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

<b>General Properties</b>		
Viscosity, liquid (25 °C)	1600 cP	
Density (liquid resin)	1.10 g/cm <sup>3</sup>	

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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.