



erpro group
INNOVATION & ADDITIVE TECHNOLOGIES

GOING BEYOND INNOVATION

DPR 10

DPR 10 is a material for dental model production.



CarbonResin DPR 10

DOC #103207 REV B
TECHNICAL DATA SHEET, LAST UPDATED 08/14/2017

Tensile Properties	GREEN STATE ASTM D638, Type V, 10 mm/min		UV-CURED ASTM D638, Type V, 1 mm/min	
	Metric	U.S.	Metric	U.S.
Tensile Modulus	770 ± 200 MPa	110 ± 25 ksi	1450 ± 50 MPa	210 ± 6 ksi
Ultimate Tensile Strength	29 ± 3 MPa	4.2 ± 0.4 ksi	46 ± 4 MPa	6.6 ± 0.6 ksi
Tensile Strength at Yield	29 ± 3 MPa	4.2 ± 0.4 ksi		
Elongation at Break	22 ± 6 %		4 ± 1 %	

Flexural Properties ASTM D790-A	GREEN STATE		UV-CURED	
	Metric	U.S.	Metric	U.S.
Flexural Strength	40 ± 5 MPa	5.8 ± 0.7 ksi	80 ± 5 MPa	11 ± 1 ksi
Flexural Modulus	1200 ± 100 MPa	175 ± 15 ksi	2250 ± 250 MPa	330 ± 30 ksi

Impact Properties	UV-CURED	
	Metric	U.S.
Notched Izod (Machined), ASTM D256	20 ± 1 J/m	0.36 ± 0.4 ft-lb/in
Unnotched Izod, ASTM D4812	170 ± 20 J/m	3.1 ± 0.3 ft-lb/in

Thermal Properties ASTM D648	UV-CURED	
	Metric	U.S.
Heat Deflection Temperature @ 0.455 MPa/66 psi	61 °C	142 °F
Heat Deflection Temperature @ 1.82 MPa/264 psi	45 °C	113 °F

General Properties	Metric
Density (liquid resin)	1.10 g/cm ³



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