



PROFESSIONAL PLASTICS, INC.

Leading Global Supplier of Engineered Plastic Shapes

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ProtoPEEK™ KD2000-IM - Material Data Sheet

General	ASTM #	US Value	SI Unit
Density, lb/in ³	D792	0.047	1.3 g/ml
Moisture Absorption @ 24hr., %	D570		<0.2
Mechanical			
Tensile Strength (Break), Kpsi	D638	14	97 MPa
Tensile Modulus, Mpsi	D638	0.6	4 GPa
Elongation (Break), %	D638		> 50 %
Flexural Strength (Yield) Kpsi	D790	25	173 MPa
Flexural Modulus Kpsi	D790	580	4 GPa
Izod, Notched, ft-lb/in @1/8"	D256	1.18	1 J/cm
Compressive Strength Kpsi	D695	19	130 Mpa
Hardness, Rockwell M/Shore D	D2240/D785	M102	Shore D 88
Thermal			
Melting Point, °F	DSC	644	340 °C
Tg (Glass Transition), °F	DSC	289	143 °C
Flammability Rating (UL 94)	UL 94		V-0
HDT@264psi, °F	D648	320	160°C
CTE, linear µin/in-°F (< Tg)	D696	26	47 µm/m-°C
Electrical			
Dielectric Strength, V/mil	D149	480	18 KV/mm
Dielectric Constant @ 1 KHz	D150		3.3
Dissipation Factor @ 1 KHz	D150		0.004
Volume Resistivity, Ohm-cm x 10 ¹⁶	D257		2
Surface Resistivity, Ohm/sq x 10 ¹⁶	D257		2

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To Request a Price Quotation, Contact Professional Plastics
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