



# Pyramid™ KD2000-G01

Polyetheretherketone, Unfilled, Standard Flow

<b>General</b>	<b>ASTM No.</b>	<b>US Value</b>	<b>SI Unit</b>
<b>Form</b>	---	Pellets (tan)	
<b>Composition</b>	---	Neat Resin	
<b>Specific Gravity</b>	D792	1.3	
<b>Crystallinity, % maximum</b>	---	35	
<b>Linear Mold Shrinkage, in/in</b>	D955	0.012	
<b>Water Absorption (24hr. @ 23 °C, %)</b>	D570	<0.2	
<b>Melt Flow Index, g/10 min</b>	D1238	20 nominal	
<b><u>Mechanical</u></b>			
<b>Tensile Strength (Break), Kpsi</b>	D638	14	97 Mpa
<b>Tensile Modulus, Kpsi</b>	D638	508	3.5 Gpa
<b>Elongation (Break), %</b>	D638	>60	
<b>Flexural Strength (yield), Kpsi</b>	D790	25	172 Mpa
<b>Flexural Modulus Kpsi</b>	D790	580	4.0 Gpa
<b>Izod, Notched, ft-lb/in @ 1/8"</b>	D256	1.7	0.91 J/cm
<b>Izod, Unnotched</b>	D256	No break	
<b>Compressive Strength, Kpsi</b>	D695	18	124 Mpa
<b>Hardness, Rockwell M</b>	D785	M102	Shore D88
<b><u>Thermal</u></b>			
<b>Melting Point, °F</b>	DSC/D3418	644	340 °C
<b>Tg °F</b>	DSC/D3418	289	143 °C
<b>Flammability Rating (UL 94)</b>	UL 94	V-0	V-0
<b>HDT@ 264 psi, °F</b>	DMA/D648	320	160 °C
<b>Thermal Conductivity, BTU-In/Hr-ft<sup>2</sup>-°F</b>	F443/C177	1.73	0.25 W/m-K
<b>CLTE, linear µin/in - °F (&lt;Tg)</b>	D696/E831	33	59.4 µm/m-°C



<b>Electrical</b>			
<b>Dielectric Strength, V/mil</b>	D149	480	18 KV/mm
<b>Dielectric Constant @ 1 KHz</b>	D150	3.3	
<b>Dissipation Factor @ 1 KHz</b>	D150	0.004	
<b>Volume Resistivity, Ohm-cm x 10<sup>16</sup></b>	D257	1	
<b>Surface Resistivity, Ohm-cm x 10<sup>16</sup></b>	D257	2	

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