



Pyramid™ KD2000-R01

Polyetheretherketone, Unfilled, Standard Flow

General	ASTM No.	US Value	SI Unit
Form	---	Pellets (Tan)	
Composition	---	Neat Resin	
Specific Gravity	D792	1.3	
Crystallinity, % maximum	---	35	
Linear Mold Shrinkage, in/in	D955	0.012	
Water Absorption (24hr. @ 23 °C, %)	D570	<0.2	
Melt Flow Index, g/10 min	D1238	20 nominal	
<u>Mechanical</u>			
Tensile Strength (Break), Kpsi	D638	14	97 Mpa
Tensile Modulus, Kpsi	D638	510	3.5 Gpa
Elongation (Break), %	D638	>40	
Flexural Strength (yield), Kpsi	D790	25	172 Mpa
Flexural Modulus Kpsi	D790	580	4.0 Gpa
Izod, Notched, ft-lb/in @ 1/8"	D256	1.7	0.91 J/cm
Izod, Unnotched	D256	No break	
Compressive Strength, Kpsi	D695	18	124 Mpa
Hardness, Rockwell M	D785	M102	D88
<u>Thermal</u>			
Melting Point, °F	DSC/D3418	644	340 °C
Tg °F	DSC/D3418	289	143 °C
Flammability Rating (UL 94)	UL 94	V-0	V-0
HDT@ 264 psi, °F	DMA/D648	320	160 °C
Thermal Conductivity, BTU-In/Hr-ft²-°F	F443/C177	1.73	0.25 W/m-K
CLTE, linear µin/in - °F (<Tg)	D696/E831	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 10¹⁶	D257	1	
Surface Resistivity, Ohm-cm x 10¹⁶	D257	2	

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