

**Pyramid™ KD2000-J01**

PEEK

Polymics, Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>20</b>	g/10min	ASTM D 1238
Mold Shrinkage, MD	<b>0.012</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Modulus	<b>3500</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>97</b>	MPa	ASTM D 638
Elongation at Break	<b>40</b>	%	ASTM D 638
Compressive Strength	<b>131</b>	MPa	ASTM D 695
Flexural Modulus	<b>3500</b>	MPa	ASTM D 790
Rockwell Hardness	<b>M 102</b>	-	ASTM D 785
Shore D Hardness	<b>88</b>	-	ASTM D 2240
Izod Impact notched, 1/8 in	<b>96</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>N</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Coefficient of Thermal Expansion, MD	<b>47</b>	E-6/K	ASTM D 696
DTUL @ 264 psi	<b>160</b>	°C	ASTM D 648
Melting Temperature	<b>339</b>	°C	ASTM D 3418
Glass Transition Temperature	<b>143</b>	°C	ASTM E 1356
Thermal Conductivity, solid state	<b>0.036</b>	W/(m K)	ASTM C 177
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>18</b>	kV/mm	ASTM D 149
Volume Resistivity	<b>1E16</b>	Ohm*cm	ASTM D 257
<b>Other properties</b>			
Water Absorption, 24hr	<b>0.2</b>	%	ASTM D 570
Density	<b>1300</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Delivery form**

Pellets

**Regional Availability**

North America, Europe, Asia Pacific