

Pyramid™ KD2000-R02

PEEK

Polymics, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	20	g/10min	ASTM D 1238
Mold Shrinkage, MD	0.012	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Modulus	3500	MPa	ASTM D 638
Tensile Strength at Break	97	MPa	ASTM D 638
Elongation at Break	40	%	ASTM D 638
Compressive Strength	117	MPa	ASTM D 695
Flexural Modulus	4000	MPa	ASTM D 790
Rockwell Hardness	M 102	-	ASTM D 785
Shore D Hardness	88	-	ASTM D 2240
Izod Impact notched, 1/8 in	82	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
Thermal properties			
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Coefficient of Thermal Expansion, MD	47	E-6/K	ASTM D 696
DTUL @ 264 psi	160	°C	ASTM D 648
Melting Temperature	340	°C	ASTM D 3418
Glass Transition Temperature	143	°C	ASTM E 1356
Thermal Conductivity, solid state	0.036	W/(m K)	ASTM C 177
Electrical properties			
ASTM Data			
Dielectric Strength, Short Time	18	kV/mm	ASTM D 149
Volume Resistivity	1E16	Ohm*cm	ASTM D 257
Other properties			
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792

Characteristics**Delivery form**

Pellets

Regional Availability

North America, Europe, Asia Pacific