

Pyramid™ PEEK KD2440

Polyetheretherketone

Polymics, Ltd.

Message:

Pyramid™ PEEK KD2440 is a Polyetheretherketone (PEEK) product filled with ceramic fiber. It is available in North America. Primary characteristic: esd protection.

General Information			
Filler / Reinforcement	Ceramic Fiber		
Features	ESD Protection		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4620	MPa	ASTM D638
Tensile Strength (Break)	95.1	MPa	ASTM D638
Tensile Elongation (Break)	> 10	%	ASTM D638
Flexural Modulus	4480	MPa	ASTM D790
Flexural Strength (Yield)	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	> 260	°C	ASTM D648
Glass Transition Temperature	143	°C	DSC
Melting Temperature	341	°C	DSC
CLTE - Flow (< 143°C)	3.6E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+12	ohms	ASTM D257
Volume Resistivity	1.0E+9 to 1.0E+12	ohms·cm	ASTM D257

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