

Pyramid™ PEEK KD2450-NT

Polyetheretherketone

Polymics, Ltd.

Message:

Pyramid™ PEEK KD2450-NT is a Polyetheretherketone (PEEK) product filled with 30% ceramic fiber. It is available in North America.

General Information			
Filler / Reinforcement	Ceramic Fiber,30% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4140	MPa	ASTM D638
Tensile Strength (Break)	79.3	MPa	ASTM D638
Tensile Elongation (Break)	> 10	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength (Yield)	152	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
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150

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