

Pyramid™ PEEK KD2540-NT

Polyetheretherketone

Polymics, Ltd.

Message:

Pyramid™ PEEK KD2540-NT is a Polyetheretherketone (PEEK) product filled with 25% ptfe fiber. It is available in North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	PTFE Fiber,25% Filler by Weight		
Features	Lubricated		
Appearance	Grey		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	
Across Flow	2.3	%	
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength (Break)	77.2	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength (Yield)	131	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.080		
vs. Itself - Static	0.10		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	171	°C	ASTM D648
Glass Transition Temperature	143	°C	DSC
Melting Temperature	343	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94

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