

Pyramid™ PEEK KD2000-R02

Polyetheretherketone

Polymics, Ltd.

Message:

Polyetheretherketone, Unfilled, Standard Flow

General Information			
Appearance	Tan		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	< 0.20	%	ASTM D570
Crystallinity	< 35	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ASTM D638
Tensile Strength (Break)	97.0	MPa	ASTM D638
Tensile Elongation (Break)	> 40	%	ASTM D638
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength (Yield)	159	MPa	ASTM D790
Compressive Strength	117	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	82	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
Glass Transition Temperature	143	°C	ASTM D3418
Melting Temperature	340	°C	DSC
CLTE - Flow	4.7E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.30		ASTM D150
Dissipation Factor (1 kHz)	4.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

