

Ketron® PEEK-1000

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Ketron® PEEK-1000 is a Polyetheretherketone (PEEK) product. It is available in Europe. Applications of Ketron® PEEK-1000 include food contact applications and medical/healthcare.

Characteristics include:

- Flame Rated
- Sterilizable
- Food Contact Acceptable
- Good Toughness
- Impact Resistant

General Information			
Features	Ethylene Oxide Sterilizable		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Sterilizability		
	Good Toughness		
	Radiation Sterilizable		
	Steam Sterilizable		
Uses	Medical/Healthcare Applications		
	Non-specific Food Applications		
	Pharmaceuticals		
Agency Ratings	EU Unspecified Rating		
	FDA Unspecified Rating		
Appearance	Black		
	Natural Color		
Forms	Disc		
	Preformed Parts		
	Rod		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.060	%	
Saturation, 23°C	0.45	%	

Equilibrium, 23°C, 50% RH	0.20	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	0.12	%	
23°C, 3.00 mm ²	10.0	mg	
23°C, 3.00 mm ³	5.0	mg	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	105		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	230	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4400	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	110	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	20	%	ISO 527-2/1B/5
Compressive Stress			ISO 604/1
2% Strain	57.0	MPa	
1% Strain	29.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Continuous Use Temperature			
-- ⁴	250	°C	
-- ⁵	310	°C	
Melting Temperature (DSC)	340	°C	
CLTE - Flow			
23 to 100°C	5.0E-5	cm/cm/°C	
23 to 150°C	5.5E-5	cm/cm/°C	
> 150°C	1.3E-4	cm/cm/°C	
Thermal Conductivity (23°C)	0.25	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms · cm	IEC 60093
Electric Strength (1.00 mm)	24	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.20		
1 MHz	3.20		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	2.0E-3		
Comparative Tracking Index	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Oxygen Index	35	%	ISO 4589-2
NOTE			
1.	96 hrs		
2.	Weight, 96 hrs		
3.	Weight, 24 hrs		
4.	20000 hrs		
5.	Short periods		

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