Ketron® PEEK-CA30

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Ketron® PEEK-CA30 is a Polyetheretherketone (PEEK) product filled with 30% carbon fiber. It is available in Europe. Typical application: Engineering/Industrial Parts.
Characteristics include:
Flame Rated
Conductive
Creep Resistant
High Stiffness
High Strength

General Information	
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight
Features	Good Creep Resistance Good Wear Resistance High Stiffness High Strength Thermally Conductive
Uses	Bearings
Appearance	Black
Forms	Disc Preformed Parts Rod Tubing

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.14	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 10.0 mm)	102		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	325	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7700	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	130	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	5.0	%	ISO 527-2/1B/5
Compressive Stress			ISO 604/1
2% Strain	97.0	MPa	

1% Strain	49.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	35	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Continuous Use Temperature			
-- [1]	250	°C	
-- [2]	310	°C	
Melting Temperature (DSC)	340	°C	
CLTE - Flow			
23 to 100°C	2.5E-5	cm/cm/°C	
23 to 150°C	2.5E-5	cm/cm/°C	
> 150°C	5.5E-5	cm/cm/°C	
Thermal Conductivity (23°C)	0.92	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+5	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Oxygen Index	40	%	ISO 4589-2
NOTE			
1.	20000 hrs		
2.	Short periods		

Recommended distributors for this material

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