Victron® 095C4

Polyetheretherketone

Asia International Enterprise (Hong Kong) Limited

Message:

Polyaryletherketones (Abbr. PEEK) is a crystalline high performance polymer with outstanding heat resistance, excellent strength and thermal properties. PEEK can compete with metals in lots of fields, its uniquely structure and properties offer outstanding fatigue and abrasion resistances, self-lubricated, excellent electrical properties, radiation resistance, and can withstand extreme temperatures difference environments. PEEK are highly used in electronics and electrical, automotives, mechanical and chemical, aerospace, military, and many high-end industries.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Crystalline Fatigue Resistant Good Abrasion Resistance Good Electrical Properties High Heat Resistance High Strength Radiation (Gamma) Resistant Self Lubricating		
Uses	Aerospace Applications Automotive Applications Electrical/Electronic Applications Medical/Healthcare Applications Military Applications		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.38	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.40	%	
Flow	0.20	%	
Water Absorption (Saturation, 23°C)	0.16	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	105		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	190	MPa	ISO 527-2/1270
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Flexural Modulus [1]	16500	MPa	ISO 178
Flexural Stress [2]	280	MPa	ISO 178
Abrasion (23°C)	0.200		ISO 8295

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	9.0	kJ/m²	ISO 180
Unnotched Izod Impact Strength	65	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	°C	ISO 75-2/A
Vicat Softening Temperature	325	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	1.4E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.62	W/m/K	ISO 8302
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	< 1.0E+5	ohms·cm	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	V-0		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

Recommended distributors for this material

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