

Victron® 095G4

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	Glass Fiber,20% Filler by Weight		
Features	Crystalline		
	Fatigue Resistant		
	Good Abrasion Resistance		
	Good Electrical Properties		
	High Heat Resistance		
	High Strength		
	Radiation (Gamma) Resistant		
Uses	Self Lubricating		
	Aerospace Applications		
	Automotive Applications		
	Electrical/Electronic Applications		
	Medical/Healthcare Applications		
Forms	Military Applications		
	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Flow	0.30	%	
Water Absorption (Saturation, 23°C)	0.12	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	102		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	130	MPa	ISO 527-2/1270
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus ¹	7500	MPa	ISO 178
Flexural Stress ²	190	MPa	ISO 178
Abrasion (23°C)	0.350		ISO 8295

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	9.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	60	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	280	°C	ISO 75-2/A
Vicat Softening Temperature	320	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	3.0E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.35	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength (in Oil)	23	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.50		IEC 60250
Dissipation Factor (1 MHz)	4.0E-3		IEC 60250
Comparative Tracking Index	200	V	IEC 60112
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		

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