

Victron® 095

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			
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	1.30	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.70	%	
Water Absorption (Saturation, 23°C)	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	99		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	95.0	MPa	ISO 527-2/1270
Tensile Strain (Break)	> 70	%	ISO 527-2/50
Flexural Modulus ¹	4000	MPa	ISO 178
Flexural Stress ²	165	MPa	ISO 178
Abrasion (23°C)	0.340		ISO 8295
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength	7.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	> 40	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Vicat Softening Temperature	315	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	4.7E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.25	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength (in Oil)	25	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.30		IEC 60250
Dissipation Factor (1 MHz)	3.0E-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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