

PEEK+30GF datasheet

PEEK+30GF block is made by PEEK plus glass fibre material, which has more rigidity and anti-reep properties. The dimension is more stable.

Property: can work under high temperature, good resistance on corrosion, hydrolysis. high strength, UV resistance, dimension stability, good mechanical property, good electrical insulation.

Utility: aerospace, automotive, medical, mechanical manufacturing, medical, chemical, and critical electronics parts etc.

color: black or natural.

-	Item	Standard	unit	value
Mechanical Properties	Density	ASTM D792	g/cm ³	1.51
	Tensile resistance strength	ASTM D638	Mpa	155
	Break elongation rate	ASTM D638	%	2.5
	Bending strength	ASTM D790	Mpa	212
	Bending modulus	ASTM D790	Mpa	10000
	Shore D hardness	ASTM D2240	D	103
	Impact strength	ASTM D256	J/M	61
Calorific Performance	Melting temperature	DSC	°C	340
	Heat deform temperature	ASTM D648	°C	315
	long term working temperature	-	°C	260
	short term working	-	°C	310
	Heat conductivity rate	DIN 52612-1	W/(K-M)	0.43
	Expansion Coefficient	ASTM D696	10 ⁻⁵ -1/K	2
Electricity Performance	Dielectrical Strength	ASTM D150	KV-mm	24
	Dielectric loss coefficient	ASTM D150	-	-
	Volume Resistance	ASTM D257	Ω .cm	10 ¹⁵
	Surface Resistance	ASTM D257	Ω	10 ¹⁶
	Dielectric constant	ASTM D149	-	3.6
Chemical Properties	Equilibrium water absorption	23°C 60% RH	%	0.1
	Acid resistance	23°C 60% RH		+
	Kali resistance	-	-	+
	Soda resistance	-	-	+
	Chlorine carbonic acid	-	-	+
	Aromatic chemical compound resistance	-	-	+
	Copper resistance	23°C 60% RH	-	+
	Hot water resistance	23°C 60% RH	-	+
Others	Flammability	UL 94		V-0
	Adhesion	-		+
	Non-toxic and harmless	EEC 90/128 FDA		0
	friction coefficient	DIN 53375		0.38-0.46
	UV resist	-		

1) The above data are tested by the professionals. To a great extent, these data can be used directly, but we can not make sure that they can be applied to any field. There will be some difference between these data and the properties of the products made from the raw material.

2) + = yes 0 = depend on - = No