

Epratone® PEEK GF30

A high-performance plastics filled with 30% glass more resistant to creep and with a higher rigidity and high mechanical strength. The material has a very high temperature resistance and excellent chemical and hydrolysis resistance. It also has a very good creep resistance at high temperatures.

General properties	Test method	Value	Unit
ISO code:	ISO 1183	PEEK GF30	
Density:	ISO 1183-1	1,5	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	0,16	%
Water absorption in Air (23°C / 100% RH)	ISO 62	0,35	%
Resistance to hot water	n/a	+	
Weather resistance	n/a	-	
Mechanical properties			
Elongation at break:	ISO 527	5	%
Ball indentation hardness	ISO 2039	250	MPa
Tensile modules of elasticity	ISO 527	6500	MPa
Charpy impact strength - notched	ISO 179	3	kJ/m2
Charpy impact strength - unnotched	ISO 179	25	kJ/m2
Compressive stress at 1%	n/a	30	MPa
Coefficient of friction		0,3-0,45	
Thermal properties			
Melting temperature	n/a	340	°C
Max. allowable service temp (short period)	n/a	300	°C
Max. allowable service temp (long period)	n/a	250	°C
Min. service temperature	n/a	-20	°C
Coefficient of linear expansion	n/a	30	x10 -6 m/(m*K)
Flammability	UL94	V0	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	0,001	Ω
Electric strength	ISO 60243	20	kV/mm
Volume resistivity	ISO 60093	>10^14	Ω.cm

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