

PEEK 4000GF30

Property		Test method	Unit	VESTAKEEP 4000GF30
Density	23°C	ISO 1183	g/cm ³	1.5
Tensile test		ASTM D638		
	Tensile strength		MPa	160
	Strain at break		%	2
Tensile modulus		ASTM D638		
Flexural test		ASTM D790		
	Flexural strength		MPa	210
Flexural modulus		ASTM D790	MPa	9000
CHARPY impact strength		ISO 179/1eU		
	23°C		kJ/m ²	70C1)
	-30°C		kJ/m ²	75C1)
IZOD notched impact strength		ASTM D256 A		
	23°C		J/m	105
	-30°C		J/m	95
Vicat softening temperature		ISO 306		
Method A	10 N		°C	340
Method B	50 N		°C	335
Linear thermal expansion		ISO 11359		
longitudinal	23–55°C		10 ⁻⁴ K ⁻¹	0.3
Relative permittivity		IEC 60250		
	50 Hz			3.4
	1 MHz			3.3
Electric strength	K20/P50	IEC 60243-1	kV/mm	25
Comparative tracking index		IEC 60112		
Test solution A	CTI			200
	100 drops value			175
Volume resistivity		IEC 60093	Ohm · m	1015
Surface resistance		IEC 60093	Ohm	1014
Melting range		ISO 11357		
DSC	2nd heating		°C	approx. 340
Melt volume-flow rate (MVR)		ISO 1133		
	380°C/ 5kg		cm ³ /10 min	2
Flammability acc. UL94		IEC 60695		
	0.8 mm	UL94		V-1
	1.6 mm			V-0
Glow wire test		IEC 60695-2-		
GWIT	2 mm	12/13	°C	875
GWFI	2 mm		°C	960
Mold shrinkage		determined on 2 mm sheets		
	in flow direction	with film gate at rim, mold	%	0.4
	in transverse direction	temperature 180°C, ISO 294-4	%	0.7

Pigmentation may affect values.

1) C = Complete break, incl. hinge break H