

	Method	Unit	PEEK	PEEK BG	PPS BG
Colour	-	-	Natural	Black	Blue
Specific Gravity	ISO-1183-1	g/cm3	1,31	1,45	1,42
Water absorption	ISO 62 24/96 hr *	%	0,06 / 0,12	0,05 / 0,11	0,01 / 0,02
	Saturation in air 23°C 50% RH	%	0,2	0,16	0,05
	Saturation in water 23°C	%	0,45	0,35	0,2
Coefficient of thermal expansion	ISO 11357 **	m(m.K)	50*10-6	35*10-6	50*10-6
Thermal conductivity @ 23°C	-	W(K.m)	0,25	0,78	0,3
Max Service temperature 5000 h	-	°C	250	250	220
Min. Service temperature	-	°C	-50	-20	-20
Tensile strength	ISO 527	Mpa	115	78	78
Tensile strain at yield	ISO 527	%	5	-	4
Tensile module of elasticity	ISO 527	MPa	4300	5900	4000
Charpy impact test notched	ISO 179-1	kJ/m2	3,5	3	4
Rockwell hardness	ISO 2039-2	-	M105	M85	M82
Electric Strength	IEC 60243-1	kV/mm	24	-	24
Volume resistivity	IEC 60093	Ohm.cm	10exp14	-	10exp14

* immersion in water of 23°C

** average value between 23 and 60 °C

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Subject to change without notice



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