



Bladen Fluorochemicals Technologies Co., Ltd

Properties	Test Sandard	Unit	PEEK Sheet	Anti-static PEEK Sheet	Conductive PEEK Sheet
Physical properties					
Density	ISO 1183	g/cm ³	1.32	1.41	1.43
Water absorption	ISO 62	%	0.4	0.2	0.4
Mechanical properties					
Yield tensile strength	ISO 527	Mpa	91	110	100
Elongation at break	ISO 527	%	11	20	20
Elastic modulus	ISO 527	Mpa	4210	3800	3800
Impact strength	ISO 179	KJ/M2	4	8.2	7.3
Hardness	ISO 868	Shore D	90	88	87
Thermal properties					
Melting point	DIN EN ISO 3146	°C	340	343	343
Thermal conductivity	ISO 22007-4	W/(m*K)	0.25	0.25	0.25
Heat capacity	DIN52612	KJ/(kg*K)	1.34	1.34	1.34
Linear thermal expansion coefficient	ISO 11359	K-1 10-4	0.47	50	50
Long-term operating temperature	-	°C	-40~260	-40~260	-40~260
Operating temperature	-	°C	310	310	310
Heat distortion temperature	ISO 75	°C	158	152	152
Electrical properties					
Surface resistance	IEC 60093	ohms	10 ¹³	10 ⁵⁻⁸	10 ³⁻⁵
Volume resistance	IEC 60093	ohms.cm	10 ¹³	10 ⁵⁻⁸	10 ³⁻⁵
Dielectric constant	IEC 60250		3.2	3.2	3.2
Dielectric loss	DIN53483		0.025	0.003	0.003
Dielectric strength	IEC 60243-1	V	16	19	19