



PFLUON PEEK

High performance thermoplastic, reinforced PolyEtherEtherKetone (PEEK) with Glass Fiber, granules with different viscosities for variety of applications, colour natural.

Properties	Test standard	Test conditions	Unit	Glass Fiber Reinforced Series						
				8200	8200	8200	8800	8800	8800	EBOOE
				GF10	GF20	GF30	GF20	GF30B	GF60	FB905
Mechanical properties										
Tensile strength	ISO 527	Breakage, 23°C	Мра	125	155	18	160	185	235	215
		Yield, 23°C	Мра	/	/	/	/	/	/	/
Elogation at break	ISO 527	Breakage, 23°C	%	6.0	4.0	2,3	3,7	2.3	1.5	2.3
Bending strength	ISO 178	Breakage, 23°C	Мра	210	360	285	360	290	375	330
		Yield, 23°C	Мра	/	/	/	/	/	/	/
Bending modulus	ISO 178	23°C	Gpa	6.0	9	11	9	11	23	13
Impact strength of simply supported	ISO 179/ IeA	With notch	kJ.m ⁻²	7,5	9	12	9	10,5	13	17
beam	ICA	Without notch	kJ.m ⁻²	65	70	75	60	70	85	90
Thermal properties										
Fusing point	ISO 11357	-	°C	343	343	343	343	343	343	343
Glass transition	ISO 11357	Start	°C	143	143	143	143	143	143	143
Thermal expansion coefficient	ISO 11359	Lower than Tg along the flow direction	ppm. K ⁻¹	30	25	20	25	20	13	20
		Higher than Tg along the flow direction	ppm. K ⁻¹	50	30	25	30	25	20	25
Thermal deformation temperature	1SO 75A-f	1.8 Mpa	°C	270	315	328	315	328	85	330
Electrical properties										
Volume resistivity	IEC 60093	23°C, 1V	Ω· cm	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
		275°C	Ω· cm	/	/	/	/	/	/	/
Surface resistivity	IEC 61340	23°C, 100V	Ω	/	/	/	/	/	/	/
Others proptertie	es				,	,	,			
Density	ISO 1183	crystalline	g/cm ³	1.36	1.44	1.52	1.44	1.52	1.83	1.52
		Non-crystalline	g/cm ³	/	/	/	/	/	/	/
Shore D hardness	ISO 868	23°C	-	87	88	89	/	89	91	89
Molding shrinkage	ISO 294-4	Parallel to the flow direction	%	0,6	0,3	0,3	0/3	0,3	0,3	0,3
		Perpendicular to the flow direction	%	1.0	0,9	0,9	0,9	0,9	0,6	0,9

Important notes:

- 1) Processing conditions are typical of those used in our processing laboratories
- 2) Data are produced in accordance with prevailing national, international and internal standards, and should be used for material comparison. Actual property values are highly dependent on part geometry, mould configuration and processing conditions. Properties may also differ for along flow and across flow direction.

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BIEGLO GmbH

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