



PFLUON PEEK

High performance thermoplastic, unreinforced PolyEtherEtherKetone (PEEK), semi-crystalline, powders/granules with different viscosities for variety of applications, colour natural.

Properties	Test	Test conditions	Unit	Pure resin series				
	standard			8000G	8100G	8200G	8800G	8900G
Mechanical properties								
Tensile strength	ISO 527	Breakage, 23°C	Мра	/	/	/	/	/
		Yield, 23°C	Мра	95	96	98	100	105
Elogation at break	ISO 527	Breakage, 23°C	%	40	40	35	25	25
Bending strength	ISO 178	Breakage, 23°C	Mpa	/	/	/	/	/
		Yield, 23°C	Мра	150	150	155	160	160
Bending modulus	ISO 178	23°C	Gpa	3,7	3,7	3,7	3,9	3,9
Impact strength of simply supported	ISO 179/ IeA	With notch	kJ.m ⁻²	9	8	7	5	4
beam		Without notch	kJ.m ⁻²	/	/	/	/	/
Thermal properties								
Fusing point	ISO 11357	-	°C	343	343	343	343	343
Glass transition	ISO 11357	Start	°C	143	143	143	143	143
Thermal expansion coefficient	ISO 11359	Lower than Tg along the flow direction	ppm. K ⁻¹	45	45	45	45	45
		Higher than Tg along the flow direction	ppm. K ⁻¹	120	120	120	120	120
Thermal deformation temperature	1SO 75A-f	1.8 Mpa	°C	152	152	152	152	152
Electrical properties								
Volume resistivity	IEC 60093	23°C, 1V	Ω· cm	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
		275°C	Ω· cm	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
Surface resistivity	IEC 61340	23°C, 100V	Ω	/	/	/	/	/
Others properties								
Density	ISO 1183	crystalline	g/cm ³	1,3	1,3	1,3	1,3	1,31
		Non-crystalline	g/cm ³	1,26	1,26	1,26	1,26	1,26
Shore D hardness	ISO 868	23°C	-	85	85	85	85	85
Molding shrinkage	ISO 294-4	Parallel to the flow direction	%	1.0	1.0	1.0	1.0	1.0
		Perpendicular to the flow direction	%	1,3	1,3	1,3	1,3	1,3

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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Status: Jan 2025