

## CoPEEK Panjin Zhongrun High Performance Polymer Co., Ltd.

### Product Description:

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

Properties	Standard	Unit	125G very low viscosity	085G 085P low viscosity	021G 021P medium viscosity	012G 012P high viscosity
<b>Physical</b>						
Density	ISO 1183	g/cm <sup>3</sup>	1.30	1.30	1.30	1.30
Melt viscosity	ISO 1133	Pa. s	90	130	300	350
Melting Temperature	ISO 3146	°C	>340	>340	>340	>340
<b>Mechanical</b>						
Tensile Strength	ISO 527	MPa	95	100	96	95
Tensile Elongation at break	ISO 527	%	15	25	40	50
Flexural Strength	ISO 178	MPa	151	165	160	155
Flexural Modulus	ISO 178	GPa	4.0	4.1	3.9	3.7
IZOD Impact Strength notched	ISO 180/A	J/m at 23°C	5.0	5.0	6.0	7.0
	ISO 180/U	J/m at 23°C	NB	NB	NB	NB
<b>Thermal</b>						
HDT (1.8MPa)	ISO 75A	°C	155	155	155	153
<b>Electrical</b>						
Dielectric Constant 1 KHz	ISO 60250		3.2	3.2	3.2	3.2
Loss Tangent 1 KHz	ISO 60250		0.0033	0.0033	0.0033	0.0033
Volume Resistivity	ISO 60093	Ω.cm	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>
<b>Flammability</b>						
Flammability	UL-94	0,4 mm	V-0	V-0	V-0	V-0
<b>Mold Shrinkage</b>						
Mold Shrinkage	ISO 2577	%	0.7/1.2	0.7/1.2	0.7/1.2	0.7/1.2

G=Granules P=Powder

### 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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