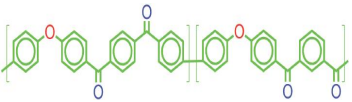




PEKK (Polyetherketoneketone)



Description

It is a high-performance thermoplastic material, based on PolyEtherKetoneKetone (PEKK) highly stable chemical backbone. PEKK is a unique member of the PAEK family, with distinctive structural features allowing for unrivalled possibilities in the control of crystallinity. These features include a high Ketone content and a co-polymer structure, incorporating Terephthalic and Isophthalic moieties. PEKK is available in pellet form as well as in flake and powder form with different particle sizes.

Typical properties

Item	Unit	Standard	PEKK 60		PEKK 70				PEKK 80			
			Powder	Granule	Powder	Granule	30%GF	30%CF	Powder	Granule	30%GF	30%CF
一般性能 General												
密度 Density		ISO 1183	1.27	1.28	1.3	1.31	1.52	1.42	1.3	1.3	1.52	1.42
吸水率@23°C water absorption	g/cm3	ISO 62	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
熔融指数(380°C/5Kg)Melt volume flow rate	g/10min	ISO 1133	20 ~ 80	20 ~ 40	40 ~ 80	20 ~ 40	7 ~ 10	4 ~ 10	40 ~ 80	20 ~ 40	7 ~ 10	4 ~ 10
阻燃性能 @1.5mm Flammability	%	UL 94	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0
机械性能 mechanical property												
拉伸强度 Tensile strength	MPa	ISO 527	85-95	85-90	100 ~ 110	100 ~ 110	160 ~ 175	240 ~ 260	115	115	175	260
拉伸模量 Tensile modulus	Gpa	ISO 527	3	3	4	4	12	24	4	4	12	24
断裂伸长率 Elongation at break	%	ISO 527	> 100	> 100	70 ~ 100	70 ~ 100	1.5 ~ 2	1.5 ~ 2	10 ~ 20	15 ~ 25	1.5 ~ 2	1.5-2
弯曲强度 Flexual strength	Mpa	ISO 178	125 ~ 135	125 ~ 135	160 ~ 170	160 ~ 170	255 ~ 265	355 ~ 365	170 ~ 185	170 ~ 185	260 ~ 270	360 ~ 370
弯曲模量 Flexual modulus	Gpa	ISO 178	3.0 ~ 3.5	3.0 ~ 3.5	4.2	4.2	10	21	4.2	4.2	10	21
热性能 Thermo property												
玻璃化转变温度(Tg) Glass Transition (Tg)	°C	ISO 11357	158	158	162	162	162	162	165	165	165	165
熔融温度(Tm) Melting Temperature	°C	ISO 11357	305	305	335	335	335	335	355	355	355	355

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