

TECATEC PEKK MT CW60 black - halvfabrikat

Kemisk beteckning

PEKK (Polyeterketonketon)

Färg

Svart solid

Densitet

1.61 g/cm³

Huvud egenskaper

- biokompatibel
- mycket hög styrka
- hög dimensionell stabilitet
- mycket bra steriliserbar
- inneboende flamskyddsmedel
- bra värmeledningstemperatur

Målindustrier

- maskinteknik
- medicinsk teknik

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Draghållfasthet	50mm/min, 5N; w arp	585	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
Draghållfasthet	50mm/min, 5N; fill	626	MPa	DIN EN ISO 527-2	(2) For flexural test: support span 64mm, norm specimen.
Elasticitetsmodul (dragprov)	1mm/min, w arp	54300	MPa	DIN EN ISO 527-2	1)
Elasticitetsmodul (dragprov)	1mm/min, fill	55300	MPa	DIN EN ISO 527-2	
Böjhållfasthet	10mm/min, 10 N; w arp	960	MPa	DIN EN ISO 178	2)
Böjhållfasthet	10mm/min, 10 N; fill	900	MPa	DIN EN ISO 178	
Elasticitetsmodul (böjningstest)	10mm/min, 10 N; w arp	50900	MPa	DIN EN ISO 178	
Elasticitetsmodul (böjningstest)	10mm/min, 10 N; fill	47600	MPa	DIN EN ISO 178	
Kompressionsstyrka	1% / 10% 10mm/min, 5 N; w arp	51 / 509	MPa	EN ISO 604	
Kompressionsstyrka	1% / 10% 10mm/min, 5 N, fill	40 / 450	MPa	EN ISO 604	
Kompressionsstyrka	1% / 10% 10mm/min, 5 N; thickness	30 / 333	MPa	EN ISO 604	
Kompressionsmodul	10mm/min, 5 N; w arp	5100	MPa	EN ISO 604	
Kompressionsmodul	10mm/min, 5 N; fill	4800	MPa	EN ISO 604	
Kompressionsmodul	10mm/min, 5 N; thickness	3470	MPa	EN ISO 604	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		165	°C	DIN EN ISO 11357	(1) Found in public sources.
Smält temperatur		370 - 380	°C	DIN EN ISO 11357	1)
Service temperatur	long term	260	°C		
termisk expansion	23-80°C, w arp	0,5	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
termisk expansion	23-80°C, fill	0,5	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
termisk expansion	23-80°C, thickness	5	%	DIN EN ISO 11359-1;2	
Övriga egenskaper	parameter	värde	enhet	norm	anmärkning
Vatten absorption	48h, 80°C	0.23	%	DIN EN ISO 62	(1) + good resistance (2) - poor resistance
Motstånd mot varmvatten / baser		+	-		1)
Motståndskraft förvittring		-	-		2)
Brandklassning (UL94)	corresponding to	V0		DIN IEC 60695-11-10;	3) The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.

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