

TECAPAI CM XP730 black - halvfabrikat

Kemisk beteckning

PAI (Polyamidimide)

Färg

Svart solid

Densitet

1.47 g/cm³

Fillers

kol fibrer

Huvud egenskaper

- utmärkt styrka och styvhet
- mycket god termisk stabilitet
- utmärkt dimensionsstabilitet
- utmärkt kemisk resistans

Målindustrier

- flygplan och rymdteknik
- processteknik
- chemical and refinery industry
- olje- och gasindustrin

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Elasticitetsmodul (dragprov)	1mm/min	12100	MPa	DIN EN ISO 527-2	1)
Draghållfasthet vid brott	5mm/min	176	MPa	DIN EN ISO 527-2	
Brottförlängning	5mm/min	2,8	%	DIN EN ISO 527-2	
Böjhållfasthet	2mm/min, 10 N	296	MPa	DIN EN ISO 178	2)
Elasticitetsmodul (böjningstest)	2mm/min, 10 N	9900	MPa	DIN EN ISO 178	
Kompressionsstyrka	1% / 2% / 5%	18/46/136	MPa	EN ISO 604	3)
slagstyrka (charpy)	max. 7,5J	50	kJ/m ²	DIN EN ISO 179-1eU	4)
Kultrycks hårdhet		321	MPa	ISO 2039-1	5)
Shore hårdhet	D scale	94		DIN EN ISO 868	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		286	°C	-	
termisk expansion	23-60°C, longitudinal	2,3	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
termisk expansion	23-100°C, longitudinal	2,1	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
Övriga egenskaper	parameter	värde	enhet	norm	anmärkning
Fuktupptagning	24h / 96h (23°C)	0,3 / 0,44	%	DIN EN ISO 62	
Brandklassning (UL94)	3,2 mm	V0		-	

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