

TECAPAI CM XP403 green - halvfabrikat

Kemisk beteckning

PAI (Polyamidimide)

Färg

grön solid

Densitet

1.41 g/cm³

Fillers

unreinforced

Huvud egenskaper

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

Målindustrier

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

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Elasticitetsmodul (dragprov)	1 mm/min	3600	MPa	DIN EN ISO 527-2	1)
Draghållfasthet vid brott	5mm/min	122	MPa	DIN EN ISO 527-2	
Brottförlängning	5mm/min	8	%	DIN EN ISO 527-2	
Böjållfasthet	2mm/min, 10 N	173	MPa	DIN EN ISO 178	2)
Elasticitetsmodul (böjningstest)	2mm/min, 10 N	3600	MPa	DIN EN ISO 178	
Kompressionsstyrka	1% / 2% / 5%	12/32/90	MPa	EN ISO 604	3)
slagstyrka (charpy)	max. 7,5J	81	kJ/m ²	DIN EN ISO 179-1eU	4)
Kultrycks hårdhet		221	MPa	ISO 2039-1	5)
Shore hårdhet	D scale	85		DIN EN ISO 868	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		285	°C	DIN EN ISO 11357	
termisk expansion	23-60°C, longitudinal	4,2	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
termisk expansion	23-100°C, longitudinal	4,3	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
termisk expansion	100-150°C, longitudinal	4,7	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
Elektriska egenskaper	parameter	värde	enhet	norm	anmärkning
Dielektrisk styrka		26	kV/mm	ISO 60243-1	1)
Dissipations faktor	@ 1 MHz	0,019	Ω/sq	DIN 53 481	
Dissipations faktor	@ 100 Hz	0,0055	%	DIN 53 481	
Dielektrisk konstant	@ 1 MHz	3,5		DIN 53 481	
Dielektrisk konstant	@ 100 Hz	3,8		DIN 53 481	
Övriga egenskaper	parameter	värde	enhet	norm	anmärkning
Fuktpptagning	24h / 96h (23°C)	0,4 / 0,57	%	DIN EN ISO 62	
Brandklassning (UL94)	3,2 mm	V0	-	-	

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