

TECAPAI CM XP530 black-green - halvfabrikat

Kemisk beteckning

PAI (Polyamidimide)

Färg

svart-grön solid

Densitet

1.62 g/cm³

Fillers

glas fibrer

Huvud egenskaper

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

Målindustrier

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

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Elasticitetsmodul (dragprov)	1mm/min	5950	MPa	DIN EN ISO 527-2	1)
Draghållfasthet vid brott	5mm/min	116	MPa	DIN EN ISO 527-2	
Brottförlängning	5mm/min	3,6	%	DIN EN ISO 527-2	
Böjhållfasthet	2mm/min, 10 N	174	MPa	DIN EN ISO 178	2)
Elasticitetsmodul (böjningstest)	2mm/min, 10 N	5900	MPa	DIN EN ISO 178	
Kompressionsstyrka	1% / 2% / 5%	19/43/117	MPa	EN ISO 604	3)
slagstyrka (charpy)	max. 7,5J	40	kJ/m ²	DIN EN ISO 179-1	4)
Kultrycks hårdhet		246	MPa	ISO 2039-1	5)
Shore hårdhet	D scale	87		DIN EN ISO 868	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		284	°C	DIN EN ISO 11357	
termisk expansion	23-60°C, longitudinal	3,1	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
termisk expansion	23-100°C, longitudinal	3,2	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
termisk expansion	100-150°C, longitudinal	3,5	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
Elektriska egenskaper	parameter	värde	enhet	norm	anmärkning
Dielektrisk styrka		32	kV/mm	ISO 60243-1	1)
Dissipations faktor	@ 1 MHz	0,012		DIN 53 481	
Dissipations faktor	@ 100 Hz	0,0054		DIN 53 481	
Dielektrisk konstant	@ 1 MHz	3,57		DIN 53 481	
Dielektrisk konstant	@ 100 Hz	3,80		DIN 53 481	
Övriga egenskaper	parameter	värde	enhet	norm	anmärkning
Vatten absorption	24h (23°C)	0,12/0,28	%	DIN EN ISO 62	1)

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