

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 gasindustri

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		-	

Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values that can be used primarily for comparison purposes for material selection. These values are within the normal tolerance range of product properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. Unless otherwise noted, these values were determined by tests at reference dimensions (typically rods with diameter 40-60 mm according to DIN EN 15860) on compression moulded and machined specimen. As the properties depend on the dimensions of the semi-finished products and the orientation in the component (esp. in reinforced grades), the material may not be used without a separate testing under individual circumstances. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com. Technical changes reserved.