TECAST T EF natural - halvfabrikat

Kemisk beteckning
PA 6 C (Gjuten polyamid 6)

Färg
Elfenben solid

Densitet
1.15 g/cm^3

Detta datablad är endast för utvecklings ändamål och kan ändras utan förvarning. Kommersialiseringen av produkten är inte garanterad.

Huvud egenskaper
- from bio-based/ biomass-balanced raw materials with optimized PCF
- bra dämpning
- bra glid och slitegenskaper
- elektriskt isolerande
- hög styrka
- bra slitegenskaper
- resistent mot många oljor, fetter och bränslen
- hög seghet

Målindustrier
- maskinteknik
- livsmedelsteknik
- olje- och gasindustrin
- bilindustrin
- tung industri

Mekaniska Egenskaper	parameter	värde	enhet	norm		anmärkning
Draghållfasthet	50mm/min	83	MPa	DIN EN ISO 527-2		(1) For tensile test: specimen type 1b (2) For flexural test: support span 64mm, norm specimen. (3) Specimen 10x10x10mm (4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression. (5) For Charpy test: support span 64mm, norm specimen. n.b. = not broken
Elasticitetsmodul (dragprov)	1mm/min	3500	MPa	DIN EN ISO 527-2	1)	
Böjhållfasthet	50mm/min	80	MPa	DIN EN ISO 527-2		
Dragtöjning	50mm/min	4	%	DIN EN ISO 527-2		
Brottförlängning	50mm/min	40	%	DIN EN ISO 527-2		
Böjhållfasthet	2mm/min, 10 N	109	MPa	DIN EN ISO 178	2)	
Elasticitetsmodul (böjningstest)	2mm/min, 10 N	3200	MPa	DIN EN ISO 178		
Kompressionsstyrka	1% / 2% / 5% 5mm/min, 10N	19/36/83	MPa	EN ISO 604	3)	
Kompressionsmodul	5mm/min, 10 N	2900	MPa	EN ISO 604	4)	
slagstyrka (charpy)	max. 7,5J	n.b.	kJ/m^2	DIN EN ISO 179-1eU	5)	
Skårslahseghet (Charpy)	max. 7,5J	4	kJ/m^2	DIN EN ISO 179-1eA		
Shore hårdhet	D	83		DIN EN ISO 868		

Värmeledningsförmåga	parameter	värde	enhet	norm		anmärkning
Glasövergångstemperatur		40	°C	DIN EN ISO 11357	1)	(1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
Smält temperatur		215	°C	DIN EN ISO 11357		
Service temperatur	short term	170	°C		2)	
Service temperatur	long term	100	°C			
termisk expansion	23-60°C, long.	12	10^{-5} K^{-1}	DIN EN ISO 11359-1;2		
termisk expansion	23-100°C, long.	12	10^{-5} K^{-1}	DIN EN ISO 11359-1;2		
Specifik värme		1.7	J/(g*K)	ISO 22007-4:2008		
Värmeledningsförmåga		0.38	W/(K*m)	ISO 22007-4:2008		

Elektriska egenskaper	parameter	värde	enhet	norm		anmärkning
Specifikt ytmotstånd		10^{14}	Ω	DIN IEC 60093		
Specifik volymr esistans		10^{14}	Ω*cm	DIN IEC 60093		

Övriga egenskaper	parameter	värde	enhet	norm		anmärkning
Vatten absorption	24h / 96h (23°C)	0.2 / 0.4	%	DIN EN ISO 62	1)	(1) Ø ca. 50mm, h=13mm (2) (+) limited resistance (3) - poor resistance (4) Corresponding means no listing at UL (yellow card). The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.
Motstånd mot varmvatten / baser		(+)		-	2)	
Motståndskraft förvittring		-		-	3)	
Brandklassning (UL94)	corresponding to	HB		DIN IEC 60695-11-10;	4)	

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