

TECAST T natural - halvfabrikat

Kemisk beteckning

PA 6 C (Gjuten polyamid 6)

Färg

Elfenben solid

Densitet

1.15 g/cm³

Data genereras direkt efter bearbetning (standardklimat Tyskland)

Huvud egenskaper

- bra dämpning
- bra glid och slitenskaper
- elektriskt isolerande
- hög styrka
- bra slitenskaper
- 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
Elasticitetsmodul (dragprov)	1mm/min	3500	MPa	DIN EN ISO 527-2	(1) For flexural test: support span 64mm, norm specimen.
Böjållfasthet	50mm/min	80	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
Dragtöjning	50mm/min	4	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
Brottförlängning	50mm/min	40	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen. n.b. = not broken
Böjållfasthet	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)
Skårslahsegghet (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)
Smält temperatur		215	°C	DIN EN ISO 11357	(2)
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	
Specifikt 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)
Motstånd mot varmvatten / baser		(+)	-	-	(2)
Motståndskraft förvittring		-	-	-	(3)
Brandklassning (UL94)	corresponding to	HB		DIN IEC 60695-11-10;	(4)

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