

## TECAST L yellow - halvfabrikat

### Kemisk beteckning

PA 6 C (Gjuten polyamid 6)

### Färg

gul solid

### Densitet

1.14 g/cm<sup>3</sup>

### Fillers

olja

### Huvud egenskaper

- bra glid och slitegenskaper
- bra slitegenskaper
- elektriskt isolerande
- hög seghet
- resistent mot många oljor, fetter och bränslen
- hög styrka

### Målindustrier

- maskinteknik
- bilindustrin
- tung industri

Data genereras direkt efter bearbetning (standardklimat Tyskland).

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Draghållfasthet	50mm/min	70	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
Elasticitetsmodul (dragprov)	1mm/min	3100	MPa	DIN EN ISO 527-2	1) (2) For flexural test: support span 64mm, norm specimen.
Böjhållfasthet	50mm/min	68	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	50	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen.
Böjhållfasthet	2mm/min, 10 N	95	MPa	DIN EN ISO 178	2) n.b. = not broken
Elasticitetsmodul (böjningstest)	2mm/min, 10 N	2900	MPa	DIN EN ISO 178	
Kompressionsstyrka	1% / 2% / 5% 5mm/min, 10 N	21/37/78	MPa	EN ISO 604	3)
Kompressionsmodul	5mm/min, 10 N	2700	MPa	EN ISO 604	4)
slagstyrka (charpy)	max. 7.5J	n.b.	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	5)
Skårslahseghet (Charpy)	max. 7.5J	6	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA	
Shore hårdhet	D	80		DIN EN ISO 868	
Värmeledningförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		42	°C	DIN EN ISO 11357	1) (1) Found in public sources.
Smält temperatur		216	°C	DIN EN ISO 11357	(2) Found in public sources.
Service temperatur	short term	170	°C		2) Individual testing regarding application conditions is mandatory.
Service temperatur	long term	100	°C		
termisk expansion	23-60°C, long.	13	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
termisk expansion	23-100°C, long.	13	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
Specifik värme		1.7	J/(g*K)	ISO 22007-4:2008	
Värmeledningförmåga		0.37	W/(K*m)	ISO 22007-4:2008	
Elektriska egenskaper	parameter	värde	enhet	norm	anmärkning
Specifikt ytmotstånd		10 <sup>14</sup>	Ω	DIN IEC 60093	
Specifik volymr esistans		10 <sup>14</sup>	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
Motstånd mot varmvatten / baser		(+)		-	2) (2) (+) limited resistance
Motståndskraft förvittring		-		-	3) (3) - poor resistance
Brandklassning (UL94)	corresponding to	HB		DIN IEC 60695-11-10;	4) (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.

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