TECASINT 8061 yellow-brown - halvfabrikat

Kemisk beteckning
PTFE (polytetrafluoretylen)

Färg
Brun-beige

Densitet
1.68 g/cm^3

Fillers
40% polyimid

Huvud egenskaper
- mycket bra glid- och slitegenskaper
- anti klister
- mycket bra elektrisk isolering
- hög seghet
- mycket bra UV och väderbeständighet
- bra kemisk resistans
- känslig för hydrolys i högre termiska intervall

Målindustrier
- kryogenteknik
- elektroteknik
- livsmedels eknik
- fixtur konstruktion
- transportteknik
- maskinteknik
- medicinsk teknik

Mekaniska Egenskaper	parameter	värde	enhet	norm		anmärkning
Draghållfasthet	50 mm/min	13	MPa	DIN EN ISO 527-1		
slagstyrka (charpy)	max 7.5 J	5.4	kJ/m^2	DIN EN ISO 179-1eU		
Skårslahseghet (Charpy)	max 7.5 J	2.5	kJ/m^2	DIN EN ISO 179-1eA		
Shore hårdhet	Shore D	70		DIN EN ISO 868		

Värmeledningsförmåga	parameter	värde	enhet	norm		anmärkning
Glasövergångstemperatur		- 20	°C	DIN EN ISO 11357		(1) Found in public sources. Individual testing regarding application conditions is mandatory. (2) Thermal expansion XY/Z axis
Service temperatur	long-term	270	°C	-	1)	
termisk expansion	50-200°C	6.7 / -	10^{-5} K $^{-1}$	DIN 53 752	2)	
Specifik värme		1	J/(g*K)	-		
Värmeledningsförmåga	40°C	0.25	W/(K*m)	ISO 8302		

Elektriska egenskaper	parameter	värde	enhet	norm		anmärkning
Specifik volymr esistans	23°C	10^{17}	Ω*cm	DIN IEC 60093		

Övriga egenskaper	parameter	värde	enhet	norm		anmärkning
Vatten absorption	24 h in water, 23°C	1.12	%	DIN EN ISO 62		(1) 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.
Brandklassning (UL94)	corresponding to	V0		DIN IEC 60695-11-10;	1)	

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