

TECASINT 6032 black - Direkt formning

Kemisk beteckning

PI (polyimid)

Färg

Svart

Densitet

1.57 g/cm³

Fillers

grafit

Produktionsprocess: direktformning

Huvud egenskaper

- mycket god termisk stabilitet
- mycket bra lager och slitage egenskaper
- Bra slitstyrka
- låg termisk expansion
- högt krypmotstånd
- hög dimensionell stabilitet
- känslig för hydrolysis i högre termiska intervall

Målindustrier

- varm glasteknik
- maskinteknik
- flygplan och rymdknik
- bilindustrin

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Draghållfasthet	50 mm/min	51	MPa	DIN EN ISO 527-1	
Elasticitetsmodul (dragprov)	1 mm/min	5200	MPa	DIN EN ISO 527-1	
Brottförlängning	50 mm/min	1.3	%	DIN EN ISO 527-1	
Böjhållfasthet	10 mm/min	70	MPa	DIN EN ISO 178	
Elasticitetsmodul (böjningstest)	2 mm/min	5500	MPa	DIN EN ISO 178	
Brottförlängning (böjtest)	10 mm/min	1.3	%	DIN EN ISO 178	
Kompressionsstyrka	10 mm/min	125	MPa	EN ISO 604	
Kompressionsstyrka	10mm/min, 10% strain	120	MPa	EN ISO 604	
tryckhållfasthet vid brott	10 mm/min	12	%	EN ISO 604	
Shore hårdhet	Shore D	83		DIN EN ISO 868	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		288	°C	-	(1) DMA, maximum loss factor tan d
termisk expansion	50-200°C	1.5 / -	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	(2) Thermal expansion XY/Z axis
termisk expansion	200-300°C	2.7 / -	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	(3) Thermal expansion XY/Z axis
Specifik värme		0.97	J/(g*K)	-	
Värmeledningsförmåga	40°C	1.66	W/(K*m)	DIN EN 821	
Övriga egenskaper	parameter	värde	enhet	norm	anmärkning
Vatten absorption	24 h in water, 23°C	0.3	%	DIN EN ISO 62	
Brandklassning (UL94)	corresponding to	V0		DIN IEC 60695-11-10;	(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.

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