

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 hydrolys i högre termiska intervall

Målindustrier

- varm glasteknik
- maskinteknik
- flygplan och rymdteknik
- 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)	(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)	(2) Thermal expansion XY/Z axis
termisk expansion	200-300°C	2.7 / -	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	3)	(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		(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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