

TECASINT 6022 black - Direkt formning

Kemisk beteckning

PI (polyimid)

Färg

Svart

Densitet

1.47 g/cm³

Fillers

grafit

Produktionsprocess: direktformning

Huvud egenskaper

- mycket bra glid- och slitegenskaper
- Bra slitstyrka
- mycket hög termisk och oxidativ resistans
- hög termisk och mekanisk kapacitet
- högt krypmotstånd
- låg termisk expansion
- motstånd mot hög energi strålning
- känslig för hydrolysis i högre termiska intervall

Målindustrier

- maskinteknik
- flygplan och rymdknik
- kryogenteknik
- vakuumteknik
- bilindustrin

Mekaniska Egenskaper

	parameter	värde	enhet	norm	anmärkning
Draghållfasthet	50 mm/min	65	MPa	DIN EN ISO 527-1	
Elasticitetsmodul (dragprov)	1 mm/min	5000	MPa	DIN EN ISO 527-1	
Brottförlängning	50 mm/min	1,7	%	DIN EN ISO 527-1	
Böjhållfasthet	10 mm/min	100	MPa	DIN EN ISO 178	
Elasticitetsmodul (böjningstest)	2 mm/min	5000	MPa	DIN EN ISO 178	
Brottförlängning (böjtest)	10 mm/min	2,1	%	DIN EN ISO 178	
Kompressionsstyrka	10 mm/min	210	MPa	EN ISO 604	
Kompressionsstyrka	10mm/min, 10% strain	155	MPa	EN ISO 604	
tryckhållfasthet vid brott	10 mm/min	30	%	EN ISO 604	
Shore hårdhet	Shore D	86		DIN EN ISO 868	

Värmeledningsförmåga

	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		283	°C	-	1)
termisk expansion	50-200°C	2.4 / -	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	2)
termisk expansion	200-300°C	4.4 / -	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	3)

- (1) DMA, maximum loss factor tan d
- (2) Thermal expansion XY/Z axis
- (3) Thermal expansion XY/Z axis

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)

- (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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