

## TECASINT 6022 black - Direkt formning

### Kemisk beteckning

PI (polyimid)

### Färg

Svart

### Densitet

1.47 g/cm<sup>3</sup>

### 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 hydrolys i högre termiska intervall

### Målindustrier

- maskinteknik
- flygplan och rymdteknik
- kryogenteknik
- vakuumenteknik
- 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)	(1) DMA, maximum loss factor tan δ
termisk expansion	50-200°C	2,4 / -	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	2)	(2) Thermal expansion XY/Z axis
termisk expansion	200-300°C	4,4 / -	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	3)	(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		(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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