

TECASINT 1031 black - halvfabrikat

Kemisk beteckning

PI (polyimid)

Färg

Svart

Densitet

1.57 g/cm³

Fillers

40 % grafit

Huvud egenskaper

- mycket bra glid- och slitegenskaper
- mycket god termisk stabilitet
- mycket hög krypresistent
- Bra slitstyrka
- hög termisk och mekanisk kapacitet
- motstånd mot hög energi strålning
- låg termisk expansion
- känslig för hydrolysis i högre termiska intervall

Målindustrier

- bilindustrin
- flygplan och rymdteknik
- kryogenteknik
- transportteknik
- varm glasteknik
- maskinteknik
- precisions teknik
- textil industrin

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning	
Draghållfasthet	50 mm/min	58	MPa	DIN EN ISO 527-1	(1) eU (2) eA	
Elasticitetsmodul (dragprov)	50 mm/min	6200	MPa	DIN EN ISO 527-1		
Brottförlängning	50 mm/min	1.6	%	DIN EN ISO 527-1		
Böjållfasthet	10 mm/min	83	MPa	DIN EN ISO 178		
Elasticitetsmodul (böjningstest)	10 mm/min	5900	MPa	DIN EN ISO 178		
Brottförlängning (böjtest)	10 mm/min	1.4	%	DIN EN ISO 178		
Kompressionsstyrka	10 mm/min	126	MPa	EN ISO 604		
Kompressionsmodul	10 mm/min	2700	MPa	EN ISO 604		
slagstyrka (charpy)	max 7.5 J	16.5	kJ/m ²	DIN EN ISO 179-1	1)	
Skårslahseghet (Charpy)	max 7.5 J	3.6	kJ/m ²	DIN EN ISO 179-1	2)	
Shore hårdhet	Shore D	84		DIN EN ISO 868		
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning	
Glasövergångstemperatur		353	°C	-	1)	(1) DMA, maximum loss factor tan d
termisk expansion	50-200°C	2.1 /	10 ⁻⁵ K ⁻¹	DIN 53 752	2)	(2) Thermal Expansion XY/Z axis
termisk expansion	200-300°C	2.7 /	10 ⁻⁵ K ⁻¹	DIN 53 752	3)	(3) Thermal expansion XY/Z axis
Övriga egenskaper	parameter	värde	enhet	norm	anmärkning	
Vatten absorption	24 h in water, 23°C	0.6	%	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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