TECASINT 1031 black - halvfabrikat

Kemisk beteckning
PI (polyimid)

Färg
Svart

Densitet
1.57 g/cm^3

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 hydrolys i högre termiska intervall

Målindustrier
- bilindustrin
- flygplan och rymdknik
- 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		
Böjhållfasthet	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 (2) Thermal Expansion XY/Z axis (3) Thermal expansion XY/Z axis
termisk expansion	50-200°C	2.1 /	10^{-5} K^{-1}	DIN 53 752	2)	
termisk expansion	200-300°C	2.7 /	10^{-5} K^{-1}	DIN 53 752	3)	

Övriga egenskaper	*parameter*	*värde*	*enhet*	*norm*		*anmärkning*
Vatten absorption	24 h in water, 23°C	0.6	%	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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