

## TECASINT 1061 black - halvfabrikat

### Kemisk beteckning

PI (polyimid)

### Färg

Svart

### Densitet

1.48 g/cm<sup>3</sup>

### Fillers

15% grafit, 10% PTFE

### Huvud egenskaper

- mycket bra glid- och slitenskaper
- hög termisk och mekanisk kapacitet
- Bra slitstyrka
- motstånd mot hög energi strålning
- bra kemisk resistans
- känslig för hydrolys i högre termiska intervall

### Målindustrier

- bilindustrin
- flygplan och rymdteknik
- transportteknik
- maskinteknik
- precisions teknik
- textil industrin
- vakuumenteknik

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Draghållfasthet	50 mm/min	77	MPa	DIN EN ISO 527-1	(1) eU (2) eA
Elasticitetsmodul (dragprov)	50 mm/min	4400	MPa	DIN EN ISO 527-1	
Brottförlängning	50 mm/min	2.9	%	DIN EN ISO 527-1	
Böjållfasthet	10 mm/min	120	MPa	DIN EN ISO 178	
Elasticitetsmodul (böjningstest)	10 mm/min	4000	MPa	DIN EN ISO 178	
Brottförlängning (böjtest)	10 mm/min	3.6	%	DIN EN ISO 178	
Kompressionsstyrka	10 mm/min	170	MPa	EN ISO 604	
slagstyrka (charpy)	max 7.5 J	25.8	kJ/m <sup>2</sup>	DIN EN ISO 179-1	1)
Skårslahseghet (Charpy)	max 7.5 J	3.9	kJ/m <sup>2</sup>	DIN EN ISO 179-1	2)
Shore hårdhet	Shore D	85		DIN EN ISO 868	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		353	°C	-	1) (1) DMA, maximum loss factor tan d
Övriga egenskaper	parameter	värde	enhet	norm	anmärkning
Vatten absorption	24 h in water, 23°C	0.64	%	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.
Vatten absorption	24 h in water, 80°C	1.82	%	DIN EN ISO 62	
Brandklassning (UL94)	corresponding to	V0		DIN IEC 60695-11-10;	1)

→ TECASINT 1000 series show significant water uptake. Parts have to be pre-dried before fast heating to above 200 °C (drying process: 2 h per 3 mm wall thickness at 150 °C).

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Ensinger Sintimid GmbH  
Ensingerplatz 1,  
4863 Seewalchen, Austria

Tel: +43 7662 88788 0  
Telefax: +43 (0) 76 62 88788-171  
tecasint@ensingerplastics.com  
[www.ensingerplastics.com](http://www.ensingerplastics.com)

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