

TECASINT 8591 grey - halvfabrikat

Kemisk beteckning

PTFE (polytetrafluoretylen)

Färg

grå

Densitet

2.56 g/cm³

Huvud egenskaper

- mycket bra glid- och slitenskaper
- låg statisk friktion
- hög dimensionell stabilitet
- mycket god termisk stabilitet
- bra kemisk resistans

Målindustrier

- flygplan och rymdteknik
- kryogenteknik
- vakuumteknik
- framdrivnings teknik

Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Draghållfasthet	50 mm/min	13	MPa	DIN EN ISO 527-1	
Elasticitetsmodul (dragprov)	1 mm/min	2300	MPa	DIN EN ISO 527-1	
Brottförlängning	50 mm/min	20	%	DIN EN ISO 527-1	
Shore hårdhet	Shore D	67		DIN EN ISO 868	
Friktionskoefficient		0,14 - 0,22		-	
Slitstyrka		1 - 10	10 ⁻⁶ mm ³ /Nm	-	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Service temperatur	long-term	260	°C	-	1)
termisk expansion	23-100°C	53	10 ⁻⁶ K ⁻¹	DIN EN ISO 11359-1;2	2)
termisk expansion	50-200°C	55	10 ⁻⁶ K ⁻¹	DIN EN ISO 11359-1;2	3)
termisk expansion	100-150°C	52	10 ⁻⁶ K ⁻¹	DIN EN ISO 11359-1;2	4)
Övriga egenskaper	parameter	värde	enhet	norm	anmärkning
Vatten absorption	24h / 96h (23°C)	0,003 / 0,016	%	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.
Outgassing in high vacuum		passed		ECSS-Q-70-02	
Brandklassning (UL94)	corresponding to	V0		DIN IEC 60695-11-10;	1)

Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values that can be used primarily for comparison purposes for material selection. These values are within the normal tolerance range of product properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. Unless otherwise noted, these values were determined by tests at reference dimensions and machined specimen. As the properties depend on the dimensions of the semi-finished products and the orientation in the component (esp. in reinforced grades), the material may not be used without a separate testing under individual circumstances. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com. Technical changes reserved.