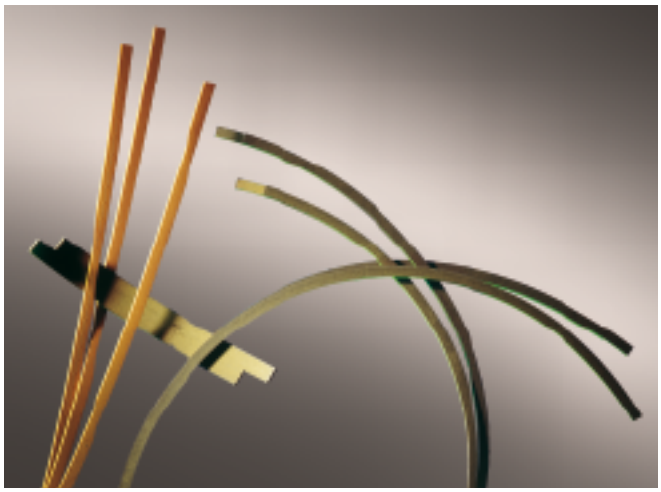
TECASINT 8000



TECASINT 8000 are PTFE-materials, reinforced with organic HT-plastics (PI powder). The types designed for slide-friction applications are very suitable for soft mating partners.

TECASINT 8021 brown beige
(SINTIMID 8010)
Very good chemical resistance, for soft mating partners. Low coefficient of friction.

TECASINT 8001 ochre
(SINTIMID 8000)
Small coefficient of friction, low creep, wear resistant. For soft mating partners.

TECASINT 8061 brown beige
(SINTIMID 6000)
High thermal resistance, low cold flow, very wear resistant.

TECASINT 8101 beige grey
(SINTIMID 7050)
Low creep, low coefficient of friction.

Characteristics

- Outstanding slide-friction properties
- Anti adhesive
- Very good weather and UV resistance
- Electrically insulating
- Good chemical resistance
- Easily machined

Preferred fields

Mechanical engineering, fittings, vaccuum technology, electronics, automotive, conveyor technology, cryogenics, precision technology, medical technology, food processing technology, textil technology.

Applications

Sliding rails, chain guiding, piston rings, bearings, bushings, gaskets, seal rings, valve seats, friction rings, piston guides, sealing strip, cup seal.

TECASINT 8000

Property values		TECASINT 8021	TECASINT 8001	TECASINT 8061	TECASINT 8101
Abbreviation		TF PI	TF PI	TF PI	TF PI CS
Description		brown beige	ochre	brown beige	beige grey
Density (DIN EN ISO 1183, ASTM D 792)	ρ g/cm³	2,04	1,88	1,68	1,88
Tensile strength at break (DIN EN ISO 527, ASTM D 638)	σ_R MPa	22	15	13	10
Elongation at break (DIN EN ISO 527, ASTM D 638)	ε_R %	200	200	4	130
Modulus of elasticity after tensile test (DIN EN ISO 527, ASTM D 638)	E_z MPa				
Flexural strength (DIN EN ISO 178)	σ_R MPa			29	
Modulus of elasticity after flexural test (DIN EN ISO 178)	E_a Pa				
Hardness (Shore D, DIN 53 505)	H	62	65	70	65
Impact resistance (DIN EN ISO 179 (Charpy))	a_n kJ/m²				
Glass transition temperature (DIN 53 765, DIN EN ISO 3146)	T_g °C	-20	-20	-20	
Thermal conductivity (23°C)	λ W/(K·m)	0,25	0,25	0,25	
Specific heat (23°C)	c J/(g·K)	1	1	1	
Coefficient of linear thermal expansion (50-200 °C, DIN 53 752)	α 10^{-5} 1/K	16	14,4	6,7	13,5
Specific volume resistance (DIN IEC 60093, EC 93)	ρ_D Ω cm	10^{18}	10^{18}	10^{17}	
Surface resistance (EC 93, DIN IEC 60093)	R_D Ω				
Dielectric constant (10^6 Hz, DIN 53 483, IE-250)	ε_r	2,3	2,3		
Dielectric loss factor (27 MHz, DIN 53 483, IE-250)	tan δ				
Dielectric strength (DIN ISO 60243-1)	E_d kV/mm				
Water absorption (DIN EN ISO 62, 23°C, 24 h)	W_s %	0,02	0,7	1,12	
Flammability acc. to UL-Standard 94		V0	V0	V0	V0

The information corresponds with current knowledge and indicates our products and possible applications. We cannot give you a legally binding guarantee of the physical properties or the suitability for a specific application. Existing commercial patents are to be taken in account.

Please find information concerning the exclusion of liability and Terms and Conditions of Delivery in our Semi-finished products catalogue or at www.ensinger-online.com.

Stock program

Rods

Tolerances: + 0,2 / + 0,8
Diameter: 8 - 65 mm
Stock length:
Ø 8-12 mm: 390 mm
Ø 12,7-15 mm: 390 mm, 790 mm
from Ø 16 mm: 390 mm, 790 mm, 990 mm.
Other delivery lengths possible, also available ground.

Plates

Tolerances:
Thickness 5-20 mm: 0 / + 0,8 mm
Thickness 20-60 mm: 0 / 1 mm
Thickness 65 mm: 0 / 1,5 mm.
Thickness: 5-65 mm
Width:
Thickness 5-55 mm: 290 / 390 mm
from thickness 60 mm: 290 mm
Stock length:
Width 290 mm: stock length 990 mm
Width 390 mm: stock length 790 mm
Other delivery lengths possible.

Tubes

Available on request.

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