

TECASINT 1061 black - Stock Shapes (rods, plates, tubes)

 Main features very good slide and wear properties high thermal and mechanical capacity good wear resistance resistance against high energy radiation good chemical resistance sensitive to hydrolysis in higher thermal range 	 → auto → aircr → conv → mec → prec → texti → vacu
	 very good slide and wear properties high thermal and mechanical capacity good wear resistance resistance against high energy radiation good chemical resistance sensitive to hydrolysis in higher thermal

et Industries

- omotive industry
- craft and aerospace technology
- nveyor technology
- chanical engineering
- cision engineering
- tile industrv
- cuum technology

Mechanical properties	parameter	value	unit	norm		comment	
Tensile strength	50 mm/min	77	MPa	DIN EN ISO 527-1		(1) eU (2) eA	
Modulus of elasticity (tensile test)	50 mm/min	4400	MPa	DIN EN ISO 527-1			
Elongation at break (tensile test)	50 mm/min	2.9	%	DIN EN ISO 527-1			
Flexural strength	10 mm/min	120	MPa	DIN EN ISO 178			
Modulus of elasticity (flexural test)	10 mm/min	4000	MPa	DIN EN ISO 178			
Elongation at break (flexural test)	10 mm/min	3.6	%	DIN EN ISO 178			
Compression strength	10 mm/min	170	MPa	EN ISO 604			
Impact strength (Charpy)	max 7.5 J	25.8	kJ/m ²	DIN EN ISO 179-1	1)		
Notched impact strength (Charpy)	max 7.5 J	3.9	kJ/m ²	DIN EN ISO 179-1	2)		
Shore hardness	Shore D	85		DIN EN ISO 868			
Thermal properties	parameter	value	unit	norm	-	comment	
Glass transition temperature		353	°C	-	1)	(1) DMA, maximum loss factor tan d	
Other properties	parameter	value	unit	norm		comment	
Water 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 	
Water absorption	24 h in water, 80°C	1.82	%	DIN EN ISO 62			

from resin, stock shape or estimation. Individual testing Flammability (UL94) corresponding to V0 DIN IEC 60695-11-10 1) regarding application conditions is mandatory.

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).

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 com. Technical changes reserved.

Manufactured by: Ensinger Group, a German based plastic manufacturer

Represented by: Ensinger Asia Holding Pte Ltd. (Singapore Branch) for Southeast Asia

63 Hillview Avenue #02-03 Lam Soon Industrial Building Singapore 669569 Tel +65 65524177 Fax +65 65525177 www.ensingerplastics.com/en-sg/ Date: 2023/12/18

Version: AD