

## TECASINT 8001 yellow-brown - Stock Shapes (rods, plates, tubes)

Chemical Designation PTFE (Polytetrafluorethylene) Colour ochre-brown Density 1.88 g/cm <sup>3</sup> Fillers 20% polyimide		<ul> <li>→ very good</li> <li>→ high tougl</li> <li>→ very good</li> <li>→ good cheil</li> </ul>	good slide and wear properties good electrical insulation toughness good UV and weather resistance d chemical resistance sitive to hydrolysis in higher thermal			Target Indus → cryogenic e → electrical e → food engine → fixture cons → medical teo → textile indu	engineering ngineering eering struction chnology
Mechanical properties	parameter		value	unit	norm		comment
Tensile strength	50 mm/min		15	MPa	DIN EN	ISO 527-1	
Shore hardness	Shore D		65	DIN EN		ISO 868	
Thormal proportios	paramotor		valuo	unit	norm		commont

Thermal properties         parameter           Glass transition temperature         Service temperature		value	unit	norm DIN EN ISO 11357		comment (1) Found in public sources. Individual testing regarding application conditions is
		- 20	°C			
		250	°C	- 1)		
Thermal expansion (CLTE)	50-200°C	14.4 / -	10 <sup>-5</sup> K <sup>-1</sup>	DIN 53 752 2)		mandatory. (2) Thermal expansion XY/Z
Specific heat	-	1	J/(g*K)	-		axis
Thermal conductivity	40°C	0.25	W/(K*m)	ISO 8302	_	• •
Electrical properties	properties parameter		unit	norm		comment
volume resistivity	23°C	10 <sup>18</sup>	Ω*cm	DIN IEC 60093		
Dielectric constant	10 kHz	2.3		DIN IEC 60250		
Other properties	parameter	value	unit	norm		comment
Water absorption	24 h in water, 23°C	0.70	%	DIN EN ISO 62		(1) Corresponding means no
Flammability (UL94)	corresponding to	V0		DIN IEC 60695-11-10;	; 1)	listing at UL (yellow card). The information might be taken from resin, stock shape or

from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.

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