

## TECAFINE PE500 yellow - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PE-HMW (Polyethylene - high molecular weight)

### Colour

yellow opaque

### Density

0.95 g/cm<sup>3</sup>

### Main features

- average molecular weight 500.000 g/mol
- high molecular weight
- good wear resistance
- good slide and wear properties
- good impact strength
- anti adhesive

### Target Industries

- construction industry
- food technology
- mining industry

Mechanical properties	parameter	value	unit	norm	comment
Modulus of elasticity (tensile test)		1100	MPa	DIN EN ISO 527-1	(1) n.b. = not broken
Tensile strength at yield		28	MPa	DIN EN ISO 527-1	
Elongation at yield (tensile test)		8	%	DIN EN ISO 527-1	
Impact strength (Charpy)		n.b.	kJ/m <sup>2</sup>	DIN EN ISO 179-1	1)
Shore hardness	Shore D	66		DIN EN ISO 868	
Thermal properties	parameter	value	unit	norm	comment
Service temperature		-100 - +80	°C	-	1)
Thermal expansion (CLTE)		18	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	(1) Found in public sources. Individual testing regarding application conditions is mandatory.
Electrical properties	parameter	value	unit	norm	comment
surface resistivity		≥ 10 <sup>14</sup>	Ω	-	
Dielectric strength		44	kV/mm	ISO 60243-1	
Other properties	parameter	value	unit	norm	comment
Flammability	corresponding to	B2		DIN 4102	1)

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Manufactured by: Ensinger Group,  
a German based plastic manufacturer

63 Hillview Avenue #02-03  
Lam Soon Industrial Building  
Singapore 669569  
Tel +65 65524177  
Fax +65 65525177  
[www.ensingerplastics.com/en-sg/](http://www.ensingerplastics.com/en-sg/)

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