TECAFINE PE500 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation
PE-HMW (Polyethylene - high molecular weight)

Colour
white opaque

Density
0.95 g/cm^3

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

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^2	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)	(1) Found in public sources. Individual testing regarding application conditions is mandatory.
Thermal expansion (CLTE)		18	10^{-5} K^{-1}	DIN EN ISO 11359-1;2		

Electrical properties	parameter	value	unit	norm		comment
surface resistivity		≥ 10^{14}	Ω	-		
Dielectric strength		44	kV/mm	ISO 60243-1		

Other properties	parameter	value	unit	norm		comment
Flammability	corresponding to	B2		DIN 4102	1)	(1) Corresponding means no listing. The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.

Manufactured by: Ensinger Group, a German based plastic manufacturer

Represented by:
Ensinger Asia Holding Pte Ltd. (Singapore Branch)
for Asia Pacific other than Japan+China

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

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