

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

Chemical Designation

Colour

Density

blue opaque

0.95 g/cm³

PE-HMW (Polyethylene - high molecular weight)

Main features

- high molecular weight
- good wear resistance
- → good slide and wear properties
- → 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) Impact strength (Charpy)		8 n.b.	% kJ/m ²	DIN EN ISO 527-1			
				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.	
Thermal expansion (CLTE)		18	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2		 Individual testing regarding application conditions is mandatory. 	
Electrical properties	parameter	value	unit	norm		comment	
surface resistivity		≥ 10 ¹⁴	Ω	-			
Dialaatria atronath		4.4	1//mama	ISO 60243-1			

surface resistivity		≥ 1014	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.

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