

PE 300 natural

Product characteristics

- ✓ Very good welding and processing properties
- ✓ Good chemical resistance
- ✓ Good mechanical properties

Product applications

- ✓ Chemical engineering and tank building
- ✓ Mechanical engineering

General properties	Test method	Unit	Value
Density	DIN EN ISO 1183-1	g/cm ³	>0,95
Water absorption	DIN EN ISO 62	%	>0,01
Flammability (thickness 3mm/ 6mm)	UL 94		HB
Flammability (thickness 3-10 mm)	DIN 4102		B2
Mechanical properties	Test method	Unit	Value
Yield stress	DIN EN ISO 527	MPa	>22
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1000
Notched impact strength	DIN EN ISO 179	kJ / m ²	>10
Shore hardness	DIN EN ISO 868	scale D	>60
Thermal properties	Test method	Unit	Value
Melting temperature	ISO 11357-3	°C	130...135
Thermal conductivity	DIN 52612-1	W /(m • K)	0,40
Thermal capacity	DIN 52612	kJ /(kg• K)	1,90
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ /k	150...230
Service temperature, long term	Average	°C	-50...80
Service temperature, short term (max.)	Average	°C	100
Heat deflection temperatur	DIN EN ISO 75 Verf. A. HDT	°C	67
Electrical properties	Test method	Unit	Value
Dielectric constant	IEC 60250	-	2,4
Dielectric dissipation factor (50Hz)	IEC 60250	-	0,0004
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ω	>10 ¹⁴
Comparative tracking index	IEC 60112	-	600
Dielectric strenght	IEC 60243	kV/mm	>40

Material data is collected in good faith from our suppliers, alternatively from raw material manufacturers, and may differ depending on the test method used. To ensure the respective value. Nordic Plastics Group disclaims all responsibility in connection with the use of the data

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