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DATA SHEET

PE 1000 (UHMW)

Material

Polyethylene (Ultra High Molecular Weight)

Characteristics

Density	DIN 53479	g/cm ³	0,94
Yield stress	DIN 53455	N/mm ²	20
Elongation at yield stress	DIN 53455	%	400
Tensile E-module	DIN 53457	N/mm ²	800
Impact strength	DIN 53453	kJ/m ²	no break
Charpy Impact strength	DIN 53453	kJ/m ²	65
Time yield limit (1 % elongation after 1000 h)	DIN 53444	N/mm ²	3
Specific insulation resistance	DIN 53482	cm	10 ¹⁷
Dielectric constant	DIN 53483	10 ⁶ HZ	2.3
Dissipation factor	DIN 53483	10 ⁶ HZ	0,0002
Dielectric strength	DIN 53481	kV/mm	90
Surface resistance	DIN 53482		10 ¹⁴
Temperature for use	Short term	°C	110
	Max. lasting	°C	80
Deflection Temperature	method A	DIN 53461	50
Underload ISO-R 75	method B		70
Coefficient of linear thermal expansionn 23 °C -100 °C	DIN 53752	10 ⁻⁵ x1/K	20
Thermal Conductivity	DIN 52612	W / (Kxm)	0,4
Flammability (UL-Standard 94)			HB
Melting temperature	DIN 53736	°C	135
Moisture pick up till saturation (23 °C)	DIN 53715	%	0
Water absorption	DIN 53495	%	0,2



Approved (US Food and Drug Aministration). Segùn Código Federal de Regulación , Título 21.