

Physical properties			
Characteristic	Method of verification	Unit	UHMW PE-ESD
I.Physical Properties			
Density	ISO 1183	g/cm ³	0.93
Water absorpoin	ISO 62	%	0.01
II.Mechanical Properties			
Tensile strength at yield	ISO 527-2	MPa	17
Tensile strength at break	ISO 527-2	MPa	40
Elongation at break	ISO 527-2	%	>50
Modulus of elasticity after tensile test	ISO 527-2	MPa	650
Modulus of elasticity after flexural test	ISO 178	MPa	800
Hardness-Rockwell	ISO 2039-2		-
Hardness-Shore D	DIN 53505		62
Charpy impact strength at 23 °C	ISO 179	kJ/m ²	N.B.
Friction coefficient	DIN 53375		0.25
III.Thermal Properties			
Heat deflection temperature-HDT/A	ISO 75-2	°C	-
Max. service temperature-Short term		°C	-
Max. service temperature-Long term		°C	-
Thermal conductivity at 23 °C	DIN 11359	W/(K*m)	0.40
Coefficient of linear thermal expansion	ISO 11359	10 ⁻⁴ *K ⁻¹	2.00
IV.Electrical Properties			
Dielectric constant at 1 MHz	IEC 60250	10 ⁶ Hz	-
Dielectric loss factor at 1 MHz	IEC 60250	10 ⁶ Hz	-
Volume resistively	IEC 60093	Ohm(Ω)*cm	<10 ⁶
Surface resistively	IEC 60093	Ohm(Ω)	<10 ⁹
Dielectric strength	IEC 60243-1	kV/mm	45
V.Miscellaneous Data			
Flammability	UL 94	Class	HB

NOTE: 1 g/cm³ = 1,000 kg/m³, 1 Mpa = 1 N/mm², 1kV/mm = 1 MV/m

The information mentioned the above are approximate figures based on our experience & knowledge.

They are as products and possible application.

will not provide any legally binding guarantee of certain properties, or any suitability.