

Physical properties			
Characteristic	Method of verification	Unit	HMW PE
I. Physical Properties			
Density	ISO 1183	g/cm ³	0.93
Water absorpctoin	ISO 62	%	0.01
II. Mechanical Properties			
Tensile strength at yield	ISO 527-2	MPa	20
Tensile strength at break	ISO 527-2	MPa	50
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		61
Charpy impact strength at 23 °C	ISO 179	kJ/m ²	N.B.
Friction coefficient	DIN 53375		0.35
III. Thermal Properties			
Heat deflection temperature-HDT/A	ISO 75-2	°C	42
Max. service temperature-Short term		°C	120
Max. service temperature-Long term		°C	90
Thermal conductivity at 23 °C	DIN 11359	W/(K*m)	0.42
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	3.00
Dielectric loss factor at 1 MHz	IEC 60250	10 ⁶ Hz	0.0001
Volume resistively	IEC 60093	Ohm(Ω)*cm	>10 ¹⁴
Surface resisively	IEC 60093	Ohm(Ω)	>10 ¹¹
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.