

Data sheet of VIRGIN UHMW PE 1000

Test Temperature:21°C

Relative Humidity:55°C

Property	Testing Method	Value
Molecular weight 1E6 g/mol	ASTM D4020	3-5
Density g/cm ³	ISO 1183-1	0.93-0.96
Dynamic coefficient of friction	ISO8295	≅0.15
Notched Impact Strength (Charpy) kJ/m ²	ISO 11542-2	100-170
Abrasion Index (Sand-slurry)	ISO/DIS 15527	100-110
Hardness (Shore D)	ISO868	60-70
Elongation at break at 23 degree %	ISO527	≥200
Yield strength MPa	ASTM D638	20.2
Tensile impact Ft-lbs/in ²	ASTM D1822	≥436
Water absorption	ASTM D570	≅0.1
Compressive deformation % at 1000 psi	ASTM D621	6.0-8.0
IZOD Impact Ft-lbs/in ²	ASTM D4020	Non-break
Thermal Expansion K ⁻¹	DIN53752	≈2X10 ⁻⁴
Melting Temperature °C	DIN53736	135
Operating Temperature °C		-80 to +80
Volume Resistivity Ohm-cm	DIN60093	10 ¹⁴
Surface Resistivity Ohm	DIN60093	10 ¹⁵

The above data sheet are based on the present knowledge and our present products and are given without guarantee. Different color may have a little difference on the properties.

- 1) Different color have different properties
- 2) Further compositions or approvals on request
- 3) Different additive added depend on the different application