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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