



山东省宁津县新兴化工有限公司
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TYPICAL PROPERTIES of UHMWPE SHEET			
Property	Units	Test Method	Typical Average Values
Molecular weight	1E6 g/mol	ASTM D4020	3-4.5
Specific Gravity,	g/cm3	ASTM D792	0.95-0.97
Water Absorption Immersion, 24 Hours	%	ASTM D570	< 0.01
Water Absorption Immersion, Saturation	%	ASTM D570	< 0.01
Tensile Strength,Ultimate	psi	ASTM D638	4800
Tensile Modulus	ksi	ASTM D638	100
Elongation at break	%	ASTM D638	≥250
Flexural Strength,	psi	ASTM D790	3000
Flexural Modulus	ksi	ASTM D790	100
Shear Strength	psi	ASTM D732	4400
Compressive Strength, 10% Deformation	psi	ASTM D695	4500
Compressive deformation	% at 1000 psi	ASTM D621	6.0-8.0
Compressive Modulus	ksi	ASTM D695	69
Hardness, Shore "D"	-	ASTM D2240	64-69
Izod Impact (notched)	ft.lb./in.	ASTM D256	No Break
Coefficient of Friction (Dry vs. Steel) Dynamic	-	QTM 55007	≅0.14
Limiting oxygen index	%	ASTM D2863	17
Flammability		UL94 Test	HB
Volume resistivity (Ohmcm)	Ohmcm	IEC 60093	10 ¹⁸
Dielectric strength (kV mm-1)	kV mm-1	IEC 60243-1	28
Dissipation factor @ 1MHz Dielectric Loss Index	@ 1MHz	IEC 60250	1-10 x 10 ⁻⁴
Dielectric constant @1MHz	@ 1MHz	IEC 60250	2.3
Deflection Temperature at 0.46 MPa (66 psi)	°C	ISO 75	69
Deflection Temperature at 1.8 MPa (264 psi)	°C	ISO 75	42

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

