



山东省宁津县新兴化工有限公司

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TYPICAL PROPERTIES OF UHMWPE FLAME RETARDANT SHEET

Property	Units	Test Method	Typical Average Values
Density	g/cm ³	ASTM D792	0.95-0.97
Surface Hardness	Shore "D"	ASTM D2240	RR50
Tensile Strength	MPa	ASTM D638	35
Flexural Modulus	GPa	ASTM D790	0.5
Notched Izod	kJ/m	ASTM D256	1.06+
Linear Expansion	/°C x 10 ⁻⁵	D696-16	13
Elongation at Break	%	ASTM D638	300
Strain at Yield	%	ASTM D638	25
Max.Operating Temp.	°C	ISO 75	55
Limiting Oxygen Index	%	ASTMd2863	17
Flammability		UL94 Test	HB
Volume Resistivity	Ohmcm	IEC 60093	10 ¹⁸
Dielectric Strength	kVmm-1	IEC 60243-1	28
Dissipation Factor @ 1MHz Dielectric Loss Index	@ 1MHz	IEC 60250	2 x 10
Dielectric factor	@ 1KHz	IEC 60250	2.3
Deflection Temperature at 0.46 MPa (66psi)	°C	ISO75	69
Deflection Temperature at 1.8 MPa (264psi)	°C	ISO75	42
Water Absorption Immersion, 24 Hours	%	ASTM D570	< 0.01
Water Absorption Immersion, Saturation	%	ASTM D570	< 0.01

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

