

ABOSN Technical Properties of UHMWPE/PE1000

Physical Properties	Test Method	Unit	Value
Density	ASTM D792	g/cm ³	0.93-0.97
Water Absorption	ASTM D570	℃	<0.01
Mechanical Properties	Test Method	Unit	Value
Tensile Strength	ASTM D638	MPa	40
Elongation, at break	ASTM D638	%	300
Flexural Strength	ASTM D790	MPa	24
Compression Strength, 10% Deformation	ASTM D695	MPa	21
Hardness, Shore D	ASTM D2240	-	D66
Coefficient of Friction	-	-	0.12
Thermal Properties	Test Method	Unit	Value
Heat Deflection Temperature	ASTM D648	℃	47
Melting Point	ASTM D3412	℃	135
Continuous Service Temperature	-	℃	82
Electrical Properties	Test Method	Unit	Value
Surface Resistivity	ASTM D257	Ω-M	>10 ¹⁵
Dielectric Constant 106Hz	ASTM D150		2.3
Volume resistivity	ASTM D257	Ω*cm	>10 ¹⁵
Dielectric strength	ASTM D604	kV/mm	45