

UHMW-PE Inspection Report

NO.:2018-10

(Test Temperature):21°C

(Relative Humidity):55°C

Item	Test method	Test result	Unit
Density	ISO1183-1	0.95	g/cm ³
Yield Strength	ASTM D-638	25	MPa
Ultimate Strength	ASTM D-638	45	MPa
Breaking Elongation	ISO527	300	%
Impact strength	ISO179	150	Mj/mm ²
Abrasion	ISO15527	100	Steel=100
Shore Hardness	ISO 868	64-67	Shore D
Friction Coefficient(Static state)	ASTM D-1894	0.11	Unitless
Coefficient of thermal expansion	ASTM D-696	0.0002	°C
Melt point	ASTM D-3417	130-140	°C
surface resistivity	IEC60093	Ω	10 ⁶
volume resistivity	IEC60093	ΩCM	10 ⁶