

Technical data sheet

Polystone® M (UHMW-PE) Virgin Black HCL Conductive

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	0.94
Water Absorption	D570	%	≤0.01
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	62 - 66
Tensile Strength at yield 73 °F	D638	psi	3,000
Tensile Modulus	D638	psi	100,000
Elongation at Break	D638	%	≥290
Flexural Strength	D790	psi	3,200
Compressive Strength	D695	psi	2,900
Izod Impact, Notched	D256	ft-lb/in	No Break
Coefficient of Friction, Dynamic	-	-	0.10 - 0.22
Coefficient of Friction, Static	-	-	0.15 - 0.20
Wear Resistance	Sand Slurry	-	100
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	1.1 x 10 ⁻⁴
Melting Point	D3418	°F	266 – 275°
Maximum Service Temperature, Air	-	°F	180°
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	108°
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Surface resistivity	D257	Ohm/sq	10 ³ - 10 ⁶
Compliance Properties	tested method	unit	value
FDA	-	-	No
NSF	-	-	No
USDA	-	-	No

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.