

Technical Data Sheet

Polystone[®] M Titanium - ASTM

PE-UHMW / PE 1000

Typical characteristics

- Good sliding properties
- Low moisture absorption
- Good wear resistance

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0.93
Carbon Black Content	ISO6964	%	n/a
Mechanical properties			
Wear resistance	Sand-slurry		100
Tensile Strength at Yield	ASTM D638	psi	3100
Hardness	ASTM D2240	Shore D	62-66
Tensile Elongation	ASTM D638	%	>400
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.20
Thermal properties			
Vicat Softening Point	ISO306	°F	176
Flammability, UL94		1/8 inch	HB
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁴	1.6
Electrical properties			
Volume Resistivity	ASTM D257	Ωcm	>10 ¹⁶
Surface resistivity	ASTM D257	Ω/cm	>10 ¹²

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