

Technical Data Sheet

Polystone[®] M Oil Filled - ASTM

PE-UHMW / PE 1000

Typical characteristics

- Low coefficient of friction
- Self-lubricating
- Good wear properties
- Good impact strength

Typical industries

- Conveyor Technology & Automation

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0.94
Water Absorption	ASTM D570	%	0.01
Mechanical properties			
Wear resistance	Sand-slurry		100
Hardness	ASTM D2240	Shore D	62 - 66
Tensile Strength at yield 73°F	ASTM D638	psi	3000
Tensile Modulus	ASTM D638	psi	100000
Elongation at Break	ASTM D638	%	>260
Flexural Strength	ASTM D790	psi	3200
Compressive Strength	ASTM D695	psi	2900
Coefficient of Friction, Dynamic			0.10-0.12
Coefficient of Friction, Static			0.15-0.17
Thermal properties			
CTE, linear	ASTM D696	in/in/°F	1.1x10 ⁻⁴
Melting Point		°F	266 - 275
Maximum Service Temperature, Air		°F	180
Heat Deflection Temperature 264psi	ASTM D648	°F	108
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	2.3
Surface resistivity	internal	Ω/sq	>10 ¹²

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	Test method	Unit	Guideline value
Compliance properties			
FDA			Yes
NSF			No
USDA			Yes

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.



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