Technical Data Sheet

Polystone® M Slide - ASTM

PE-UHMW / PE 1000

Typical characteristics

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

Typical industries

- Conveyor Technology & Automation
- Food Industry
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm^3	0.95 - 0.96
Water Absorption	ASTM D570	%	<0.01
Mechanical properties			
Wear resistance	Sand-slurry		80
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	%	>200
Flexural Strength	ASTM D790	psi	2300
Compressive Strength	ASTM D695	psi	2900
Coefficient of Friction, Dynamic			0.07-0.10
Coefficient of Friction, Static			0.10-0.15
Thermal properties			
CTE, linear	ASTM D696	1/K	1.0×10^{-4}
Melting Point		°F	266 - 275
Maximum Service Temperature, Air		°F	180
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	2.3
Surface resistivity	ASTM D257	Ω/cm	$>10^{12}$

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	Test method	Unit	Guideline value
Compliance properties			
FDA			Yes
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.