

Technical Data Sheet

Polystone® M AST-FDA - ASTM

[PE-UHMW / PE 1000]

Product characteristics

- High abrasion and wear resistance
- Low coefficient of friction
- Reduces built-up of static & electrical charges

Product applications

- Conveyor Components
- Chute and hopper liners
- Light-duty guides & rails

	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	%	>290
Flexural Strength	ASTM D790	psi	3200
Compressive Strength	ASTM D695	psi	2900
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.20
Thermal properties			
CTE, linear	ASTM D696	in/in/°F	1.1 x 10 ⁻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	1 MHz	2.3
Surface resistivity	ASTM D257	Ω/sq	10 ⁶ - 10 ¹¹
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.

