

## Polystone® M (UHMW-PE) AST-FDA

### Product characteristics

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

### Typical field of application

- Conveyor Components
- Chute liners
- Guide rails

	ASTM Test method	Unit	Value
<b>Physical Properties</b>			
Specific Gravity	D792	g/cm <sup>3</sup>	0.935
Water Absorption	D570	%	≤0.01
<b>Mechanical Properties</b>			
Hardness	D785	Shore D	63 - 69
Tensile Strength at yield 73 °F	D638	psi	3000
Tensile Modulus	D638	psi	100,000
Elongation at Break	D638	%	≥290
Flexural Strength	D790	psi	3200
Compressive Strength	D695	psi	2900
Izod Impact, Notched	D256	ft-lb/in	No Break
Coefficient of Friction, Dynamic	-	-	0.10 - 0.15
Coefficient of Friction, Static	-	-	0.15 - 0.20
Wear Resistance	Sand Slurry	-	100
<b>Thermal properties</b>			
CTE, linear	D696	in/in/°F	1.1 x 10 <sup>-4</sup>
Melting Point	D3418	°F	275
Maximum Service Temperature, Air	-	°F	180
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	108
Flammability, UL94	-	1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	D150	-	2.3
Surface resistivity	D257	Ohm/sq	10 <sup>5</sup> to 10 <sup>9</sup>
<b>Compliance Properties</b>			
FDA	-	-	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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Status: April 12, 2016



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