

## Polystone® M XL Crosslinked - ASTM (PE-UHMW / PE 1000)

### Product characteristics

- Improved wear resistance
- Long service life
- Excellent chemical resistance

### Product applications

- Wear strips
- Chain guides
- Light-duty guides & rails

	Test method	Unit	Guideline Value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	0.93
Water Absorption	ASTM D570	%	<0.01
<b>Mechanical properties</b>			
Wear resistance	Sand-slurry		85
Hardness	ASTM D2240	Shore D	62 - 66
Tensile Strength at yield 73°F	ASTM D638	psi	2900
Tensile Modulus	ASTM D638	psi	100000
Elongation at Break	ASTM D638	%	>330
Izod Impact, Notched	ASTM D256	ft-lb/in	No Break
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.20
<b>Thermal properties</b>			
CTE, linear	ASTM D696	1/K	2.0 x 10 <sup>-4</sup>
Melting Point		°F	266 - 275
Maximum Service Temperature, Air		°F	180
Flammability, UL94		1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1 MHz	2.3
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>12</sup>
<b>Compliance Properties</b>			
FDA			No
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.