

# Technical data sheet

## Polystone® M (UHMW-PE) XL Crosslinked

### Product characteristics

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

### Typical field of application

- Wear strips
- Chain guides
- Guide rails

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm <sup>3</sup>	0.93
Water Absorption	D570	%	≤ 0.01
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	62-66
Tensile Strength at yield 73 °F	D638	psi	2,900
Tensile Modulus	D638	psi	125,000
Elongation at Break	D638	%	≥330
Izod Impact, Notched	D256	ft-lb/in	No Break
Coefficient of Friction, Dynamic	-	-	0.10 - 0.20
Coefficient of Friction, Static	-	-	0.15 - 0.20
Wear Resistance	Sand Slury	-	85
Thermal Properties	tested method	unit	value
CTE, linear	D696	1/K	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	175°
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	2.3
Surface resistivity	D257	Ohm/cm	>10 <sup>15</sup>
Dielectric strength	D149	V/mil	40
Compliance Properties	tested method	unit	value
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.