

Technical data sheet

Polystone® M (UHMW-PE) M-Slide

Product characteristics

- Very low coefficient of friction
- High abrasion and wear resistance
- Self-lubricating

Typical field of application

- Chute liners
- Bin and Silo Liners
- Conveyor skirting

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	0.95 – 0.96
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	3,000
Tensile Modulus	D638	psi	100,000
Elongation at Break	D638	%	≥ 200
Flexural Strength	D790	psi	2,300
Compressive Strength	D695	psi	2,900
Izod Impact, Notched	D256	ft-lb/in	No Break
Coefficient of Friction, Dynamic	-	-	0.07 - 0.10
Coefficient of Friction, Static	-	-	0.10 - 0.15
Abrasion Loss	-	-	80
Thermal Properties	tested method	unit	value
CTE, linear	D696	1/K	1.0 x 10 ⁻⁴
Melting Point	D3418	°F	266 – 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 ¹²
Dielectric strength	D149	V/mil	45
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.