

Technical Data Sheet

Polystone[®] M Reprocessed - ASTM

PE-UHMW / PE 1000

Typical characteristics

- Low coefficient of friction
- Good wear properties

Typical industries

- Conveyor Technology & Automation
- Utility and special vehicles

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0.93 - 0.94
Water Absorption	ASTM D570	%	0.01
Mechanical properties			
Wear resistance	Sand-slurry		90
Hardness	ASTM D2240	Shore D	63 - 69
Tensile Strength at yield 73°F	ASTM D638	psi	3000
Tensile Modulus	ASTM D638	psi	100000
Elongation at Break	ASTM D638	%	>290
Compressive Strength	ASTM D695	psi	2800
Izod Impact, Notched	ASTM D256	ft-lb/in	No Break
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.25
Izod Impact Strength	ASTM D4020		96
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	116
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	116
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	2.3

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Print: 30/04/2026 • Release: 08/04/2024 • Version: 1.0

PIM-ID: 717948 • PIM-Code: 32-19-12.126-11.9-2

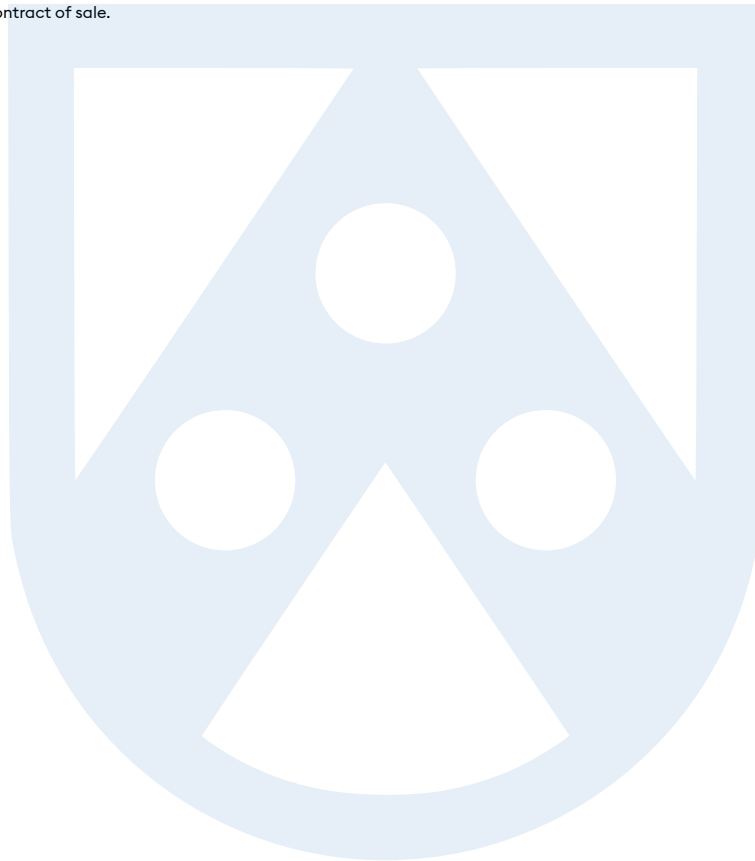
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	Test method	Unit	Guideline value
Dielectric strength	ASTM D149		45
Surface resistivity	ASTM D257	Ω/cm	>10 ¹²
Compliance properties			
FDA			No
NSF			No
USDA			No

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.



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