

Technical Data Sheet

Polystone[®] M MDT - ASTM

PE-UHMW / PE 1000

Typical characteristics

- Metal detectable as small as 3 mm particle size
- High impact resistance
- Good wear resistance
- Low sliding properties

Typical industries

- Beverage Industry
- Food Industry

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0.95
Water Absorption	ASTM D570	%	0.10
Mechanical properties			
Hardness	ASTM D2240	Shore D	62 - 66
Tensile Strength at yield 73°F	ASTM D638	psi	3000
Tensile Modulus	ASTM D638	psi	100000
Elongation at Break	ASTM D638	%	>320
Compressive Strength	ASTM D695	psi	3000
Thermal properties			
CTE, linear	ASTM D696	in/in/°F	2.0x10 ⁻⁴
Melting Point		°F	266 - 275
Maximum Service Temperature, Air		°F	180
Heat Deflection Temperature 264psi	ASTM D648	°F	108
Flammability, UL94		1/8 inch	HB
Electrical properties			
Surface resistivity	ASTM D257	Ω/cm	>10 ¹²
Compliance properties			
FDA			Yes
NSF			Yes
USDA			Yes

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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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Page 2 / 2 (Dates in DD/MM/YYYY)

