

## Technical Data Sheet

# Polystone<sup>®</sup> M AST - ASTM

PE-UHMW / PE 1000

### Typical characteristics

- Good wear properties
- Low coefficient of friction
- Reduces build-up of static & electrical charges

### Typical industries

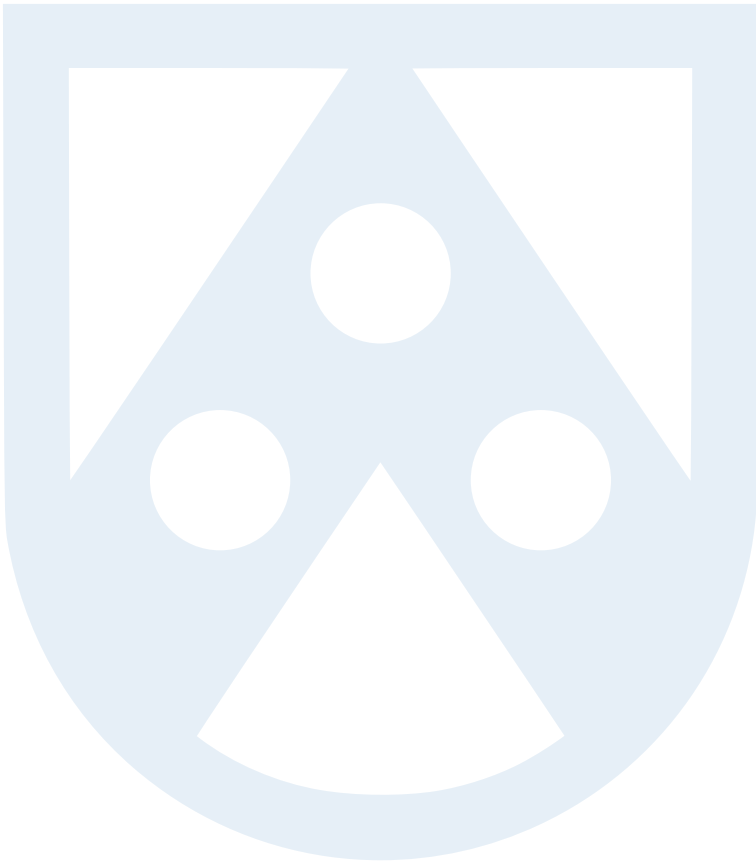
- Agriculture Industry
- Bulk Material Handling
- Conveyor Technology & Automation

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	0.94
Water Absorption	ASTM D570	%	0.01
<b>Mechanical properties</b>			
Wear resistance	Sand-slurry		100
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	%	>290
Flexural Strength	ASTM D790	psi	3200
Compressive Strength	ASTM D695	psi	2900
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.20
<b>Thermal properties</b>			
CTE, linear	ASTM D696	in/in/°F	1.1x10 <sup>-4</sup>
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
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	2.3
Surface resistivity	ASTM D257	Ω/sq	10 <sup>6</sup> - 10 <sup>11</sup>
<b>Compliance properties</b>			

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	Test method	Unit	Guideline value
FDA			No
NSF			No
USDA			No



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