

## Technical Data Sheet

### Polystone<sup>®</sup> M MDT - ASTM

[PE-UHMW / PE 1000]

#### Product characteristics

- X-ray detectable as small as 3mm particle size
- Excellent impact and wear resistance
- Low sliding properties

#### Product applications

- kettle paddles & scraper blades
- Portion fillers
- Food processing parts

	Test method	Unit	Guideline Value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	0.95
Water Absorption	ASTM D570	%	<0.10
<b>Mechanical properties</b>			
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
<b>Thermal properties</b>			
CTE, linear	ASTM D696	in/in/°F	2.0x10 <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>			
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>12</sup>
<b>Compliance Properties</b>			
FDA			Yes
NSF			Yes
USDA			Yes

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.

