

## Technical data sheet

### Polystone® M MDT (Metal Detectable UHMW-PE)

#### Product characteristics

- Detectable as small as 3mm particle size
- Excellent impact and wear resistance
- Low sliding properties

#### Typical field of application

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

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm <sup>3</sup>	0.95
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	3,200
Tensile Modulus	D638	psi	100,000
Elongation at Break	D638	%	≥ 320
Compressive Strength	D695	psi	3000
Izod Impact, Notched	D256	ft-lb/in	No Break
Coefficient of Friction	-	-	0.13
Wear Resistance	Sand Slurry	-	88
Thermal Properties	tested method	unit	value
Melting Point	D3418	°F	266 – 275°
Maximum Service Temperature, Air	-	°F	180°
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	108°
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Surface resistivity	D257	Ohm/cm	≥10 <sup>14</sup>
Compliance Properties	tested method	unit	value
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.