

Technical Data Sheet

Polystone[®] M XDT - ASTM

PE-UHMW / PE 1000

Typical characteristics

- X-ray detectable as small as 3mm particle size
- Good sliding properties

Typical industries

- Bakery and Confectionery
- Beverage Industry
- Food Industry

| | Test method | Unit | Guideline value |
|---|-------------|----------------------------|-----------------|
| General properties | | | |
| Density | ASTM D792 | g / cm ³ | 1.0 |
| Water Absorption | ASTM D570 | % | 0.10 |
| Carbon Black Content | ISO6964 | % | n/a |
| Mechanical properties | | | |
| Tensile Strength at Yield | ASTM D638 | psi | 3000 |
| Hardness | ASTM D2240 | Shore D | 62-66 |
| Thermal properties | | | |
| Melting Point | | °F | 266-275 |
| Maximum Service Temperature, Air | | °F | 180 |
| Deflection Temperature at 1.8Mpa (264psi) | ASTM D648 | °F | 108 |
| Flammability, UL94 | | 1/8 inch | HB |
| Coefficient of Linear Thermal Expansion | ASTM D696 | in/in/°F x10 ⁻⁴ | 2.0 |
| Compliance properties | | | |
| FDA | | | Yes |
| NSF | | | Yes |
| USDA | | | Yes |

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