

Technical data sheet

Polystone® M XDT (X-Ray Detectable UHMW-PE)

Product characteristics

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

Typical field of application

- Food processing parts
- Scraper blades & Mixer Paddles
- Guide Rails

| Physical Properties | tested method | unit | value |
|---|---------------|-------------------|------------|
| Specific Gravity | D792 | g/cm ³ | 1.0 |
| Water Absorption | D570 | % | ≤ 0.10 |
| Mechanical Properties | tested method | unit | value |
| Hardness | D785 | Shore D | 62 |
| Tensile Strength at yield 73 °F | D638 | psi | 2,480 |
| Flexural Strength | D790 | psi | 3,000 |
| Izod Impact, Notched | D256 | ft-lb/in | 55.4 |
| 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 |
| 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.