

Technical Data Sheet



Polystone[®] M PIR natural

PE-UHMW / PE 1000

Typical characteristics

- Low coefficient of friction
- Good wear properties
- Good impact strength
- Good mechanical properties

Typical industries

- 输送机技术和自动化
- 机械工程行业

Sustainability

- Post-Industrial-Recycling material
- Recycling content 90%

| | Test method | Unit | Guideline value |
|---|-------------------|----------------------|-------------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | >0,93 |
| Water absorption | DIN EN ISO 62 | % | <0,01 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | >17 |
| Elongation at yield stress | DIN EN ISO 527 | % | >18 |
| Elongation at break | DIN EN ISO 527 | % | >235 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >550 |
| Notched impact strength | DIN EN ISO 11542 | kJ / m ² | >100 |
| Shore hardness | DIN EN ISO 868 | scale D | >60 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 130 ... 135 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,40 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ / K | 150 ... 230 |
| Service temperature, long term | Average | °C | -250 ... 80 |
| Service temperature, short term (max.) | Average | °C | 130 |
| Electrical properties | | | |
| Volume resistivity | DIN EN 62631-3-1 | Ω * cm | >10 ¹⁴ |
| Surface resistivity | DIN EN 62631-3-2 | Ω | >10 ¹⁴ |

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

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