

Technical Data Sheet

Polystone[®] MK FL + AST black pressed

PE-UHMW / PE 1000

Typical characteristics

- Certified according to EN 45545-2
- Self-extinguishing
- Antistatic

Typical industries

- Vehicle Construction
- Mechanical Engineering Industry

| | Test method | Unit | Guideline value |
|---|-------------------------|-----------------------|-----------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | >1,0 |
| Water absorption | DIN EN ISO 62 | % | 0,1 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | V0 |
| Molecular weight | - | 10 ⁶ g/mol | ~ 9 |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | >20 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >1000 |
| Shore hardness | DIN EN ISO 868 | scale D | >63 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 130 ... 135 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ / K | 150 ... 230 |
| Service temperature, long term | Average | °C | -200 ... 80 |
| Service temperature, short term (max.) | Average | °C | 130 |
| Vicat softening temperature | DIN EN ISO 306, Vicat B | °C | 79 |
| Electrical properties | | | |
| Volume resistivity | DIN EN 62631-3-1 | Ω * cm | 10 ⁹ |
| Surface resistivity | DIN EN 62631-3-2 | Ω | 10 ⁹ |

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.

ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 21/04/2026 • Release: 20/09/2023 • Version: 2.0

PIM-ID: 591142 • PIM-Code: 1089-26-16.12.16-7.5-5

Company-IDs: 20000-1

Page 1 / 1 (Dates in DD/MM/YYYY)

