

### Technical Data Sheet

# Polystone<sup>®</sup> MK FL + AST black pressed

PE-UHMW / PE 1000

#### Typical characteristics

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

#### Typical industries

- 车辆构造
- 机械工程行业

|   | Test method             | Unit                  | Guideline value |
|---|-------------------------|-----------------------|-----------------|
| <b>General properties</b>               |                         |                       |                 |
| Density                                 | DIN EN ISO 1183-1       | g / cm <sup>3</sup>   | >1,0            |
| Water absorption                        | DIN EN ISO 62           | %                     | 0,1             |
| Flammability (Thickness 3 mm / 6 mm)    | UL 94                   |                       | V0              |
| Molecular weight                        | -                       | 10 <sup>6</sup> g/mol | ~ 9             |
| <b>Mechanical properties</b>            |                         |                       |                 |
| 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             |
| <b>Thermal properties</b>               |                         |                       |                 |
| Melting temperature                     | ISO 11357-3             | °C                    | 130 ... 135     |
| Coefficient of linear thermal expansion | DIN 53752               | 10 <sup>-6</sup> / 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              |
| <b>Electrical properties</b>            |                         |                       |                 |
| Volume resistivity                      | DIN EN 62631-3-1        | Ω * cm                | 10 <sup>9</sup> |
| Surface resistivity                     | DIN EN 62631-3-2        | Ω                     | 10 <sup>9</sup> |

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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