

### Technical Data Sheet

# Polystone<sup>®</sup> D EL black

PE-HD / PE 500

#### Typical characteristics

- Electrically conductive
- Good mechanical properties
- Good sliding properties

#### Typical industries

- 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>  | >0,96           |
| Water absorption                        | DIN EN ISO 62           | %                    | 0,01            |
| Flammability (Thickness 3 mm / 6 mm)    | UL 94                   |                      | HB              |
| <b>Mechanical properties</b>            |                         |                      |                 |
| Yield stress                            | DIN EN ISO 527          | MPa                  | >22             |
| Elongation at break                     | DIN EN ISO 527          | %                    | >50             |
| Tensile modulus of elasticity           | DIN EN ISO 527          | MPa                  | >1000           |
| Shore hardness                          | DIN EN ISO 868          | scale D              | 65              |
| <b>Thermal properties</b>               |                         |                      |                 |
| Melting temperature                     | ISO 11357-3             | °C                   | 130 ... 135     |
| Thermal conductivity                    | DIN 52612-1             | W / (m * K)          | 0,40            |
| Thermal capacity                        | DIN 52612               | kJ / (kg * K)        | 1,90            |
| Coefficient of linear thermal expansion | DIN 53752               | 10 <sup>-6</sup> / K | 150 ... 230     |
| Service temperature, long term          | Average                 | °C                   | -100 ... 80     |
| Service temperature, short term (max.)  | Average                 | °C                   | 80              |
| 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>5</sup> |
| Surface resistivity                     | DIN EN 62631-3-2        | Ω                    | 10 <sup>5</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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