

## Technical Data Sheet

### Polystone® M black AST

#### Product characteristics

- Reduction of dust deposit
- High wear resistance
- High impact strength

#### Product applications

- Mechanical engineering
- Packaging industry
- Electrical industry

|   | Test method             | Unit                 | Guideline Value  |
|---|-------------------------|----------------------|------------------|
| <b>General properties</b>               |                         |                      |                  |
| Density                                 | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | 0,95             |
| 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          | %                    | >200             |
| Tensile modulus of elasticity           | DIN EN ISO 527          | MPa                  | 700              |
| Notched impact strength                 | DIN EN ISO 179          | kJ / m <sup>2</sup>  | no break         |
| Shore hardness                          | DIN EN ISO 868          | scale D              | 63               |
| Wear resistance                         | Sand-slurry             |                      | 100              |
| <b>Thermal properties</b>               |                         |                      |                  |
| Melting temperature                     | ISO 11357-3             | °C                   | 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                   | -150 ... 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>6</sup> |
| Surface resistivity                     | DIN EN 62631-3-2        | Ω                    | <10 <sup>6</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.