

## Technical Data Sheet

### Polystone® P AST black

#### Product characteristics

- Antistatic
- Good chemical resistance
- Easy processing

#### Product applications

- Clean room and semi conductor industry
- Electrical industry

|                                                    | Test method             | Unit                 | Guideline Value                       |
|----------------------------------------------------|-------------------------|----------------------|---------------------------------------|
| <b>General properties</b>                          |                         |                      |                                       |
| Density                                            | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | >0,91                                 |
| Water absorption                                   | DIN EN ISO 62           | %                    | <0,1                                  |
| Flammability (Thickness 3 mm / 6 mm)               | UL 94                   |                      | HB                                    |
| <b>Mechanical properties</b>                       |                         |                      |                                       |
| Yield stress                                       | DIN EN ISO 527          | MPa                  | >30                                   |
| Elongation at break                                | DIN EN ISO 527          | %                    | >50                                   |
| Tensile modulus of elasticity                      | DIN EN ISO 527          | MPa                  | >1300                                 |
| Notched impact strength                            | DIN EN ISO 179          | kJ / m <sup>2</sup>  | >6                                    |
| Shore hardness                                     | DIN EN ISO 868          | scale D              | >70                                   |
| <b>Thermal properties</b>                          |                         |                      |                                       |
| Melting temperature                                | ISO 11357-3             | °C                   | 162 ... 167                           |
| Thermal conductivity                               | DIN 52612-1             | W / (m * K)          | 0,20                                  |
| Thermal capacity                                   | DIN 52612               | kJ / (kg * K)        | 1,70                                  |
| Coefficient of linear thermal expansion            | DIN 53752               | 10 <sup>-6</sup> / K | 120 ... 190                           |
| Service temperature, long term                     | Average                 | °C                   | 0 ... 100                             |
| Service temperature, short term (max.)             | Average                 | °C                   | 150                                   |
| Vicat softening temperature                        | DIN EN ISO 306, Vicat B | °C                   | 90                                    |
| <b>Electrical properties</b>                       |                         |                      |                                       |
| Dielectric dissipation factor (10 <sup>6</sup> Hz) | IEC 60250               |                      | 0,00019                               |
| Surface resistivity                                | DIN EN 62631-3-2        | Ω                    | >10 <sup>9</sup> ... 10 <sup>12</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.