

## Polystone® P black AST

### Product characteristics

- Antistatic
- Good chemical resistance
- Easy processing

### Product applications

- Clean room and semi conductor industry
- Electrical industry

|  | Test method             | Unit                 | Value                                 |
|--|-------------------------|----------------------|---------------------------------------|
| <b>General properties</b>                          |                         |                      |                                       |
| Density  | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | 0,92                                  |
| 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                  | 32                                    |
| 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>                          |                         |                      |                                       |
| Crystalline grain melting range                    | ISO 11357-3             | °C                   | 150                                   |
| Thermal conductivity                               | DIN 52612-1             | W / (m * K)          | 0,2                                   |
| 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                                | IEC 60093               | 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.