

Technical Data Sheet

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 | Guideline Value |
|--|-------------------------|----------------------|---------------------------------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | 0,92 |
| Water absorption | DIN EN ISO 62 | % | <0,1 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Mechanical properties | | | |
| 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 ² | 6 |
| Shore hardness | DIN EN ISO 868 | scale D | 70 |
| Thermal properties | | | |
| Melting temperature | 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 ⁻⁶ / 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 |
| Electrical properties | | | |
| Dielectric dissipation factor (10 ⁶ Hz) | IEC 60250 | | 0,00019 |
| Surface resistivity | DIN EN 62631-3-2 | Ω | >10 ⁹ ... 10 ¹² |

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.