

Technical Data Sheet

Polystone® G EL black extruded

Typical characteristics

- Good weldability
- Easy processing
- Chemical resistant
- Good mechanical properties

Typical industries

- Chemical Processing Industry

| | Test method | Unit | Guideline value |
|---|-------------------------|----------------------|------------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | >0,98 |
| Water absorption | DIN EN ISO 62 | % | <0,01 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Flammability (Thickness 3 - 10 mm) | DIN 4102 | | B2 |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | >22 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >1100 |
| Notched impact strength | DIN EN ISO 179 | kJ / m ² | >5 |
| Shore hardness | DIN EN ISO 868 | scale D | >65 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 130 ... 135 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ / K | 150 ... 230 |
| Service temperature, long term | Average | °C | -50 ... 80 |
| Service temperature, short term (max.) | Average | °C | 100 |
| Vicat softening temperature | DIN EN ISO 306, Vicat B | °C | 67 |
| Thermal conductivity | DIN EN ISO 22007-2 | W / (m * K) | 0,40 |
| Thermal capacity | DIN EN ISO 11357-4 | kJ / (kg * K) | 1,90 |
| Electrical properties | | | |
| Volume resistivity | DIN EN 62631-3-1 | Ω * cm | <10 ⁵ |
| Surface resistivity | DIN EN 62631-3-2 | Ω | <10 ⁵ |

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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Print: 23/11/2024 • Release: 20/09/2023 • Version: 1.0
PIM-Version: 626 • PIM-ID: 591147 • PIM-Code: 626-24-16.12.33.17-7-5

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