

Technical Data Sheet

Polystone[®] G HD + FR (UL 94-V2) black

PE-HD / PE 300

Typical characteristics

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

Typical industries

- Construction de réservoirs et d'installations chimiques
- Construction de machines et d'installations
- Industrie de l'équipement électrique

| | Test method | Unit | Guideline value |
|---|-------------------------|----------------------|-------------------|
| General properties | | | |
| Densité | DIN EN ISO 1183-1 | g / cm ³ | >1,4 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | V2 |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | >20 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >1400 |
| Notched impact strength | DIN EN ISO 179 | kJ / m ² | >4 |
| 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 ¹⁴ |
| Surface resistivity | DIN EN 62631-3-2 | Ω | >10 ¹⁴ |

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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