

Technical Data Sheet

Polystone[®] G B 100 RC + GK black

Typical characteristics

- Very good stress cracking resistance
- Chemical resistance
- Suitable for contact with drinking water

Typical industries

- Construction de réservoirs et d'installations chimiques
- Réservoirs de stockage

| | Test method | Unit | Guideline value |
|--|-------------------|---------------------|-----------------|
| General properties | | | |
| Densité | DIN EN ISO 1183-1 | g / cm ³ | >0,96 |
| Water absorption | DIN EN ISO 62 | % | <0,01 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Non-toxicity | | | + |
| MRS classification | ISO TR 9080 | | PE 100 |
| Approval | | | DIBt |
| Melt Flow Rate (MFR 190/5) | DIN EN ISO 1133 | g / 10 min | 0,22 |
| Moulding Compound PE | DIN ISO 1872-1 | | PE-EACH-50T003 |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | >23 |
| Elongation at break | DIN EN ISO 527 | % | >50 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >1100 |
| Notched impact strength | DIN EN ISO 179 | kJ / m ² | >16 |
| Shore hardness | DIN EN ISO 868 | scale D | 63 |
| FNCT (4.0 MPa, 2 % Arkopal N 100, 80 °C) | ISO 16770 | h | >8760 |
| Tensile Strength (23°C) | ASTM D1457 | N/mm ² | <4 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 130 ... 135 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,40 |
| Thermal capacity | DIN 52612 | kJ / (kg * K) | 1,90 |

| | Test method | Unit | Guideline value |
|--|-------------------------|----------------------|-------------------|
| 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 |
| Electrical properties | | | |
| Dielectric constant | IEC 60250 | | 2,5 |
| Dielectric dissipation factor (10 ⁶ Hz) | IEC 60250 | | 0,0004 |
| Volume resistivity | DIN EN 62631-3-1 | Ω * cm | >10 ¹⁴ |
| Surface resistivity | DIN EN 62631-3-2 | | >10 ¹⁴ |
| Comparative tracking index | IEC 60112 | | 600 |
| Arc resistance | IEC 60093 | degree | L4 (*) |
| Dielectric strength | IEC 60243 | kV / mm | 30 |

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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