

Technical Data Sheet

Polystone[®] P (Copolymer) grey extruded

PP-C

Typical characteristics

- High rigidity
- Good weldability
- Corrosion resistant

Typical industries

- Construction de réservoirs et d'installations chimiques

Sustainability

- LCA available (ISO 14040/44)

| | Test method | Unit | Guideline value |
|--|-------------------------|----------------------|-------------------|
| General properties | | | |
| Densité | DIN EN ISO 1183-1 | g / cm ³ | >0,91 |
| 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 | >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 | >30 |
| Shore hardness | DIN EN ISO 868 | scale D | >65 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 162 ... 165 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,20 |
| 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 | -30 ... 100 |
| Service temperature, short term (max.) | Average | °C | 150 |
| Vicat softening temperature | DIN EN ISO 306, Vicat B | °C | 85 |
| Electrical properties | | | |
| Dielectric constant | IEC 60250 | | 2,5 |
| Dielectric dissipation factor (10 ⁶ Hz) | IEC 60250 | | 0,00019 |
| Volume resistivity | DIN EN 62631-3-1 | Ω * cm | >10 ¹⁴ |
| Surface resistivity | DIN EN 62631-3-2 | Ω | >10 ¹⁴ |

ri-inquiry@roechling.com • www.roechling.com/industrial/materials



| | Test method | Unit | Guideline value |
|----------------------------|-------------|---------|-----------------|
| Comparative tracking index | IEC 60112 | | 600 |
| Dielectric strength | IEC 60243 | kV / mm | >40 |

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.



ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 22/05/2026 • Release: 24/09/2025 • Version: 10.0
PIM-ID: 591016 • PIM-Code: 1195-64-11.16.21-9-3-5
Company-IDs: 20000-1

Page 2 / 2 (Dates in DD/MM/YYYY)

