

## Technical Data Sheet

## Polystone<sup>®</sup> P (Homopolymer) EHS grey extruded

PP-H

### Typical characteristics

- High rigidity
- Good weldability
- Chemical resistant
- Corrosion resistant
- Low stress

### Typical industries

- Construction de réservoirs et d'installations chimiques
- Centres de décapage d'acier

|                                                    | Test method             | Unit                 | Guideline value |
|----------------------------------------------------|-------------------------|----------------------|-----------------|
| <b>General properties</b>                          |                         |                      |                 |
| Densité                                            | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | >0,90           |
| Water absorption                                   | DIN EN ISO 62           | %                    | <0,1            |
| Flammability (Thickness 3 mm / 6 mm)               | UL 94                   |                      | HB              |
| <b>Mechanical properties</b>                       |                         |                      |                 |
| Yield stress                                       | DIN EN ISO 527          | MPa                  | >30             |
| Elongation at yield stress                         | DIN EN ISO 527          | %                    | >50             |
| Tensile modulus of elasticity                      | DIN EN ISO 527          | MPa                  | >1500           |
| Notched impact strength                            | DIN EN ISO 179          | kJ / m <sup>2</sup>  | >4              |
| Shore hardness                                     | DIN EN ISO 868          | scale D              | >70             |
| <b>Thermal properties</b>                          |                         |                      |                 |
| Melting temperature                                | ISO 11357-3             | °C                   | 162 ... 167     |
| 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 <sup>-6</sup> / K | 120 ... 190     |
| Service temperature, long term                     | Average                 | °C                   | 0 ... 120       |
| Service temperature, short term (max.)             | Average                 | °C                   | 150             |
| Vicat softening temperature                        | DIN EN ISO 306, Vicat B | °C                   | 90              |
| <b>Electrical properties</b>                       |                         |                      |                 |
| Dielectric constant                                | IEC 60250               |                      | 2,4             |
| Dielectric dissipation factor (10 <sup>6</sup> Hz) | IEC 60250               |                      | 0,00019         |

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

Print: 13/12/2025 • Release: 08/04/2025 • Version: 3.0  
 PIM-Version: 969 • PIM-ID: 746511 • PIM-Code: 969-19-11.16.33.21.11-7.6-5  
 Company-IDs: 20000-1

Page 1 / 2 (Dates in DD/MM/YYYY)



|                     | Test method      | Unit                     | Guideline value |
|---------------------|------------------|--------------------------|-----------------|
| Volume resistivity  | DIN EN 62631-3-1 | $\Omega \cdot \text{cm}$ | $>10^{14}$      |
| Surface resistivity | DIN EN 62631-3-2 | $\Omega$                 | $>10^{14}$      |
| 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](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

Print: 13/12/2025 • Release: 08/04/2025 • Version: 3.0  
PIM-Version: 969 • PIM-ID: 746511 • PIM-Code: 969-19-11.16.33.21.11-7.6-5  
Company-IDs: 20000-1

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

