

## Technical Data Sheet



# Polystone® P HG EHS black

PP-H

### Typical characteristics

- Good sterilisation resistance
- High rigidity
- ISO 10993-5 tested on semi-finished product
- Corrosion resistant
- Chemical resistant

### Typical industries

- Healthcare

|                                         | Test method                 | Unit                 | Guideline value   |
|-----------------------------------------|-----------------------------|----------------------|-------------------|
| <b>General properties</b>               |                             |                      |                   |
| Density                                 | DIN EN ISO 1183-1           | g / cm <sup>3</sup>  | >0,91             |
| Water absorption                        | DIN EN ISO 62               | %                    | <0,10             |
| Flammability (Thickness 3 mm / 6 mm)    | UL 94                       |                      | HB / HB           |
| <b>Mechanical properties</b>            |                             |                      |                   |
| Yield stress                            | DIN EN ISO 527              | MPa                  | >30               |
| Tensile modulus of elasticity           | DIN EN ISO 527              | MPa                  | >1800             |
| 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       |
| Heat deflection temperature             | DIN EN ISO 75, Verf. A, HDT | °C                   | 90                |
| Autoclaving temperature resistance      | Average                     | °C                   | 0 ... 135         |
| <b>Electrical properties</b>            |                             |                      |                   |
| Volume resistivity                      | DIN EN 62631-3-1            | Ω * cm               | >10 <sup>14</sup> |
| Surface resistivity                     | DIN EN 62631-3-2            | Ω                    | >10 <sup>14</sup> |
| Dielectric strength                     | IEC 60243                   | kV / mm              | >40               |

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

Print: 21/05/2025 • Release: 16/05/2024 • Version: 2.0  
 PIM-Version: 643 • PIM-ID: 751871 • PIM-Code: 643-2-21.11.19.21.33-9-5  
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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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