

## Technical Data Sheet



# Polystone<sup>®</sup> P HG EHS grey pressed

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>  | >0,90             |
| 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 break                     | 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 ... 100         |
| Service temperature, short term (max.)  | Average                 | °C                   | 150               |
| Vicat softening temperature             | DIN EN ISO 306, Vicat B | °C                   | 95                |
| <b>Electrical properties</b>            |                         |                      |                   |
| Volume resistivity                      | DIN EN 62631-3-1        | Ω * cm               | >10 <sup>14</sup> |

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|                     | Test method      | Unit     | Guideline value |
|---------------------|------------------|----------|-----------------|
| 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.



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Print: 30/05/2026 • Release: 18/08/2025 • Version: 1.0  
PIM-ID: 751872 • PIM-Code: 643-26-21.11.19.21.33-27-5  
Company-IDs: 20000-1

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