

Technical Data Sheet

Polystone[®] PPs (Homopolymer) grey extruded

PP-H

Typical characteristics

- High stiffness
- Good weldability
- Easy processing
- Chemical resistant
- Flame retardant

Typical industries

- Chemical Processing Industry
- Electronics
- Exhaust-air cleaning plants
- Ventilation plants

| | Test method | Unit | Guideline value |
|---|-------------------------|----------------------|-----------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | >0,93 |
| Water absorption | DIN EN ISO 62 | % | <0,1 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | V2 |
| Flammability (Thickness 3 - 10 mm) | DIN 4102 | | B1 |
| Mechanical properties | | | |
| 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 | >1300 |
| Notched impact strength | DIN EN ISO 179 | kJ / m ² | >4 |
| Shore hardness | DIN EN ISO 868 | scale D | >67 |
| Thermal properties | | | |
| 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 ⁻⁶ / 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 | 81 |
| Electrical properties | | | |
| Dielectric constant | IEC 60250 | | 2,4 |

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| | Test method | Unit | Guideline value |
|--|------------------|---------|-------------------|
| 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 |
| 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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Print: 16/06/2026 • Release: 20/05/2025 • Version: 3.0
 PIM-ID: 590981 • PIM-Code: 1117-22-132.16.12.33.16-9.8.4.4-5
 Company-IDs: 20000-1

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