

Technical data sheet

Foamlite® P (Closed-cell, foamed Polypropylene) Natural, Black, White

Product characteristics

- Low density & lighter weight
- Virtually no moisture absorption & chemically resistant
- High flexural fatigue strength

Typical field of application

- Chemical engineering & tank building
- Industry packing systems & reusable containers
- Insulating linings

| General Properties | tested method | unit | value |
|--|-------------------------|----------------------------------|-------------------|
| Density | DIN EN ISO 1183-1 | g/cm ³ | |
| Water Absorption | DIN EN ISO 62 | % | <0.10 |
| Mechanical Properties | tested method | unit | value |
| Yield Stress | DIN EN ISO 527 | N/mm ² | 18 |
| Elongation at Break | DIN EN ISO 527 | % | >50 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | 1,100 |
| Notched impact strength (charpy) | DIN EN ISO 179 | kJ/m ² | 24 |
| Shore hardness | DIN EN ISO 868 | Scale D | 70 |
| Thermal properties | tested method | unit | value |
| Melting temperature | ISO 11357-3 | °C | 162 - 167 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0.10 – 0.15 |
| Thermal capacity | DIN 52612 | kJ / (kg * K) | 1.70 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁸ K ⁻¹ | 120 - 190 |
| Service temperature, long term | Average | °C | -10 ... 90 |
| Service temperature, short term (max.) | Average | °C | 150 |
| Heat deflection temperature | DIN EN ISO 306, Vicat B | °C | 149 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Electrical properties | tested method | unit | value |
| Dielectric constant | IEC 60250 | - | 2.3 |
| Dielectric dissipation factor (10 ⁶ Hz) | IEC 60250 | - | 0.00019 |
| Volume resistivity | IEC 60093 | Ω *cm | >10 ¹⁴ |
| Surface resistivity | IEC 60093 | Ω | >10 ¹³ |
| 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. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.