# Technical Data Sheet

## Foamlite® P

### Product characteristics
- Low density
- Nearly no moisture absorption
- High tensile strength

### Product applications
- Industry packaging systems
- Reusable containers
- Insulating lining

<table>
<thead>
<tr>
<th>General properties</th>
<th>Test method</th>
<th>Unit</th>
<th>Guideline Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>DIN EN ISO 1183-1</td>
<td>g / cm³</td>
<td>0.65</td>
</tr>
<tr>
<td>Water absorption</td>
<td>DIN EN ISO 62</td>
<td>%</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Flammability (Thickness 3 mm / 6 mm)</td>
<td>UL 94</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Mechanical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Test method</th>
<th>Unit</th>
<th>Guideline Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield stress</td>
<td>DIN EN ISO 527</td>
<td>MPa</td>
<td>18</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>DIN EN ISO 527</td>
<td>%</td>
<td>&gt;50</td>
</tr>
<tr>
<td>Tensile modulus of elasticity</td>
<td>DIN EN ISO 527</td>
<td></td>
<td>1100</td>
</tr>
<tr>
<td>Notched impact strength</td>
<td>DIN EN ISO 179</td>
<td>kJ / m²</td>
<td>24</td>
</tr>
<tr>
<td>Shore hardness</td>
<td>DIN EN ISO 868</td>
<td>scale D</td>
<td>70</td>
</tr>
</tbody>
</table>

### Thermal properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Test method</th>
<th>Unit</th>
<th>Guideline Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting temperature</td>
<td>ISO 11357-3</td>
<td>°C</td>
<td>162 – 167</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>DIN 52612-1</td>
<td>W / (m * K)</td>
<td>0.10 – 0.15</td>
</tr>
<tr>
<td>Thermal capacity</td>
<td>DIN 52612</td>
<td>kJ / (kg * K)</td>
<td>1.70</td>
</tr>
<tr>
<td>Coefficient of linear thermal expansion</td>
<td>DIN 53752</td>
<td>$10^{-6} / K$</td>
<td>120 - 190</td>
</tr>
<tr>
<td>Service temperature, long term</td>
<td>Average</td>
<td>°C</td>
<td>-10 ... 90</td>
</tr>
<tr>
<td>Service temperature, short term (max.)</td>
<td>Average</td>
<td>°C</td>
<td>150</td>
</tr>
<tr>
<td>Vicat softening temperature</td>
<td>DIN EN ISO 306, Vicat B</td>
<td>°C</td>
<td>149</td>
</tr>
</tbody>
</table>

### Electrical properties

<table>
<thead>
<tr>
<th>Property</th>
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<th>Guideline Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric constant</td>
<td>IEC 60250</td>
<td></td>
<td>2.3</td>
</tr>
<tr>
<td>Dielectric dissipation factor</td>
<td>IEC 60250</td>
<td></td>
<td>0.00019</td>
</tr>
<tr>
<td>Volume resistivity</td>
<td>DIN EN 62631-3-1</td>
<td>Ω * cm</td>
<td>&gt;10¹³</td>
</tr>
<tr>
<td>Surface resistivity</td>
<td>DIN EN 62631-3-2</td>
<td>Ω</td>
<td>&gt;10¹³</td>
</tr>
<tr>
<td>Comparative tracking index</td>
<td>IEC 60112</td>
<td></td>
<td>600</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>IEC 60243</td>
<td>kV / mm</td>
<td>40</td>
</tr>
</tbody>
</table>

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.