### Description

Polyisocyanurate rigid foam

Blowing agents: Pentane and isomers

### Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Method/Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal density</td>
<td>ASTM D1622/EN 1602/EN ISO 845</td>
<td>lb/ft³ (kg/m³)</td>
<td>2 (32)</td>
</tr>
<tr>
<td>Compressive resistance – Parallel (74°F/23°C)</td>
<td>ASTM D1621/EN 826</td>
<td>psi (MPa)</td>
<td>33.4 (0.230)</td>
</tr>
<tr>
<td>Compressive resistance - Perpendicular (74°F/23°C)</td>
<td>ASTM D1621/EN 826</td>
<td>psi (MPa)</td>
<td>20.3 (0.140)</td>
</tr>
<tr>
<td>Tensile strength - Parallel (74°F/23°C)</td>
<td>ASTM D1623-A/EN 1607</td>
<td>psi (MPa)</td>
<td>58 (0.400)</td>
</tr>
<tr>
<td>Tensile strength - Perpendicular (74°F/23°C)</td>
<td>ASTM D1623-A/EN 1607</td>
<td>psi (MPa)</td>
<td>43.5 (0.300)</td>
</tr>
<tr>
<td>Shear strength - Perpendicular (74°F/23°C)</td>
<td>ASTM C273/EN 12090</td>
<td>psi (MPa)</td>
<td>23 (0.160)</td>
</tr>
<tr>
<td>Thermal conductivity - Initial (68°F/20°C)</td>
<td>ASTM CS18/EN 12667</td>
<td>BTU·in/hr·ft²·°F (mW/mK)</td>
<td>0.155 (22.2)</td>
</tr>
<tr>
<td>Thermal conductivity - Initial (50°F/10°C)</td>
<td>ASTM CS18/EN 12667</td>
<td>BTU·in/hr·ft²·°F (mW/mK)</td>
<td>0.147 (21.0)</td>
</tr>
<tr>
<td>Thermal conductivity - Initial (75°F/24°C)</td>
<td>ASTM CS18/EN 12667</td>
<td>BTU·in/hr·ft²·°F (mW/mK)</td>
<td>0.161 (22.8)</td>
</tr>
<tr>
<td>Thermal conductivity - 180 days (75°F/24°C)</td>
<td>ASTM CS18/EN 12667</td>
<td>BTU·in/hr·ft²·°F (mW/mK)</td>
<td>0.182 (26.0)</td>
</tr>
<tr>
<td>Fire reaction</td>
<td>DIN 4102</td>
<td>Class</td>
<td>B2</td>
</tr>
<tr>
<td>Fire reaction (maximum extent of burnt length)</td>
<td>EN ISO 3582</td>
<td>inches (mm)</td>
<td>&lt;3.9 (&lt;10)</td>
</tr>
<tr>
<td>Fire reaction (extinguishing time)</td>
<td>EN ISO 3582</td>
<td>s</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Surface burning characteristics</td>
<td>ASTM E84</td>
<td>FSI</td>
<td>&lt;25</td>
</tr>
<tr>
<td>Surface burning characteristics</td>
<td>ASTM E84</td>
<td>Smoke Dev.</td>
<td>&lt;200</td>
</tr>
<tr>
<td>Fire reaction</td>
<td>ASTM D3014</td>
<td>%</td>
<td>Ret. &gt;90%</td>
</tr>
<tr>
<td>Index of fire</td>
<td>BKZ</td>
<td>Class</td>
<td>5.3</td>
</tr>
<tr>
<td>Leachable chlorides</td>
<td>ASTM C871/EN 13468</td>
<td>ppm</td>
<td>&lt;20</td>
</tr>
<tr>
<td>Dimensional stability (-40°F/-40°C, 7 days)</td>
<td>ASTM D2126/EN 1604</td>
<td>%</td>
<td>±0.5</td>
</tr>
<tr>
<td>Dimensional stability (+212°F/+100°C, 7 days)</td>
<td>ASTM D2126/EN 1604</td>
<td>%</td>
<td>+1.0</td>
</tr>
<tr>
<td>Dimensional stability (+158°F/70°C, 97% R.H., 7 days)</td>
<td>ASTM D2126/EN 1604</td>
<td>%</td>
<td>+1.5</td>
</tr>
<tr>
<td>Water absorption by volume</td>
<td>ASTM C272</td>
<td>%</td>
<td>&lt;0.6</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>°F (°C)</td>
<td>-299/+248 (-184/+120)</td>
<td></td>
</tr>
<tr>
<td>R-Value - 180 days, 1 inch (75°F/24°C)</td>
<td>ASTM CS18/EN 12667</td>
<td>hr·ft²·°F/BTU</td>
<td>5.50</td>
</tr>
<tr>
<td>Closed-cell content</td>
<td>ASTM D6226/EN ISO 4590</td>
<td>%</td>
<td>&gt;92</td>
</tr>
</tbody>
</table>
Handling notice

Terms “parallel” and “perpendicular” are referred to slab/specimen/block thickness direction.

In some applications polyurethane may present fire risks, e.g. if exposed to fire or to excessive heat in presence of oxygen or air, including when welding or cutting with torches.

It is the Customer’s responsibility to determine if product described herein is appropriate for Customer’s purposes and end-use and to ensure that working place, storage and disposal practices are in compliance with any applicable law.

Remarks

For usage information, personal protective equipment, transport, storage and disposal of waste it is essential to refer to the Material Safety Data Sheets.

Values shown are determined from laboratory tests and obtained under controlled conditions; they outline typical characteristics and they do not constitute anyhow a sales specification; they are based on DUNA-USA’s current knowledge and experience of the products when properly stored, handled and applied in accordance with our recommendations.

This Technical Data Sheet cancels and replaces any other previous issue.

DUNA-USA does not any accept responsibility for incorrect use of its products as it cannot ensure the correct methods of application have been followed; we therefore specifically disclaim any liability for consequential or incidental damages of any kind, including lost profits.

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