Neopor® HPE-130 Tech Data Sheet
Innovation in Insulation Enhanced with Graphite.

Product Description.
Neopor HPE-130 is an Innovation in insulation product with a maximum R-value enhanced with graphite.

Neopor HPE-130 is a premium grade insulation manufactured to provide builders and contractors all the features and benefits inherent in a high quality insulation.

Applications.
• Exterior above and below grade insulation

Technical Data.
Code Compliances.
Neopor HPE-130 is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER5817-02.

Applicable Standards.
Neopor HPE-130 meets ASTM C578, Type VIII, “Standard Specification for Rigid Cellular Polystyrene Thermal Insulation”. Applicable standards include:

• ASTM D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
• ASTM C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
• ASTM E96 – Standard Test Methods for Water Vapor Transmission of Materials
• ASTM C272 – Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions
• ASTM D2126 – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging

Innovation in Insulation.
Neopor® is an advanced rigid thermal insulation material available locally and world-wide that allows builders to achieve energy code while still meeting client budget expectations.
### Neopor® HPE-130 Physical Properties.

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit of Measure</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength(^1,2) @ 10% deformation, min. ASTM D1621</td>
<td>psi</td>
<td>13</td>
</tr>
<tr>
<td>R-value(^1), Thermal Resistance, ASTM C518</td>
<td>°F·ft(^2)-h/Btu</td>
<td>5.2</td>
</tr>
<tr>
<td>Density, Nominal ASTM C303</td>
<td>lb/ft(^3)</td>
<td>1.25</td>
</tr>
<tr>
<td>Flexural Strength(^1), min. ASTM C203</td>
<td>psi</td>
<td>32</td>
</tr>
<tr>
<td>Water Vapor Permeance(^1) of 1.0 in. thickness, max., perm ASTM E96</td>
<td></td>
<td>3.1</td>
</tr>
<tr>
<td>Water Absorption(^1) by total immersion, max., volume % ASTM C272</td>
<td></td>
<td>1.1</td>
</tr>
<tr>
<td>Flame Spread Index ASTM E84</td>
<td></td>
<td>&lt;25</td>
</tr>
<tr>
<td>Smoke Developed Index ASTM E84</td>
<td></td>
<td>&lt;450</td>
</tr>
<tr>
<td>Maximum use temperature</td>
<td></td>
<td>165°F (74°C)</td>
</tr>
<tr>
<td>ASTM C578 Compliance, Type</td>
<td></td>
<td>VIII</td>
</tr>
</tbody>
</table>

\(^1\) Please refer to ASTM C578 specification for complete information. R-values are based on 1-1/16" thickness.

\(^2\) Compressive strength is measured at 10 percent in accordance with ASTM C578. A safety factor is required to prevent long-term creep for sustained loads.

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**Why Builders Rely on Neopor® High Performance Insulation.**

- Graphite-enhanced R-5 performance
- Meets 2009, 2012 and 2015 International Residential Code (IRC) for Continuous Insulation (CI), Below Grade, Attics and Crawl Spaces
- Moisture-resistant and Vapor-open
- GREENGUARD Gold Indoor Air Quality
- Attractive incentive program
- R-value Warranty

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