DuPont™ Styrofoam™ Brand Plazamate™ XPS Foam Insulation

Sturdy, Moisture-Resistant Insulation for Commercial Plaza Decks

FEATURES/BENEFITS

Description
DuPont™ Styrofoam™ Brand Plazamate™ Extruded Polystyrene (XPS) Foam Insulation* is designed for installation above waterproofing membranes in commercial plaza deck applications. Styrofoam™ Brand Plazamate™ Insulation helps the roof membrane maintain a steady temperature, minimizing the harmful effects of freeze-thaw cycles, weathering and physical damage both during and after construction.

Sustainable Solutions
- Styrofoam™ Brand Plazamate™ Insulation is reusable in many applications.
- Styrofoam™ Brand Plazamate™ is hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential.
- Contains an average of 20% pre-consumer recycled content certified by UL Environment Inc.

Ease of Installation
Styrofoam™ Brand Plazamate™ Insulation is:
- Strong, yet lightweight
- Easy to handle, cut and install
- Easy to fabricate into various sizes and shapes to meet specific design needs
- Square-edged on four sides to minimize on-site cutting and waste
- Lined with 1/2” x 1/4” drainage channels on the bottom long edge
- Reusable

Available Sizes
Available sizes, R-values and edge treatments for Styrofoam™ Brand Plazamate™ Insulation can be found in Table 1.

TABLE 1: Sizes, R-values and Edge Treatments for Styrofoam™ Brand Plazamate™ XPS Foam Insulation

<table>
<thead>
<tr>
<th>Nominal Board Thickness (in.)</th>
<th>R-Value (2)</th>
<th>Board Size (ft.)</th>
<th>Edge Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>7.5</td>
<td>24 x 96</td>
<td>Square Edge</td>
</tr>
<tr>
<td>2.0</td>
<td>10.5</td>
<td>24 x 96</td>
<td>Square Edge</td>
</tr>
<tr>
<td>3.0</td>
<td>15.0</td>
<td>24 x 96</td>
<td>Square Edge</td>
</tr>
</tbody>
</table>

*Not all product sizes are available in all regions.

R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-values expressed in ft²•h•°F/Btu.

R-value determined by ASTM C518.

PROPERTIES

Styrofoam™ Brand Plazamate™ Insulation exhibits physical properties as indicated in Table 2 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-866-583-2583 when additional guidance is required for writing specifications that include this product.

* Styrofoam™ Brand Plazamate™ Extruded Polystyrene (XPS) Foam Insulation is a former product of The Dow Chemical Company.
TABLE 2: U.S. Physical Properties of Styrofoam™ Brand Plazamate™ XPS Foam Insulation

<table>
<thead>
<tr>
<th>Property and Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Resistance per inch, ASTM C518 @ 75°F mean temp., ft²•h•°F/Btu, R-value(1), min.</td>
<td>5.0</td>
</tr>
<tr>
<td>Compressive Strength(2), ASTM D1621, psi, min.</td>
<td>60</td>
</tr>
<tr>
<td>Water Absorption, ASTM C212, % by volume, max.</td>
<td>0.1</td>
</tr>
<tr>
<td>Water Vapor Permeance(3), ASTM E84, perm. max.</td>
<td>0.8</td>
</tr>
<tr>
<td>Maximum Use Temperature, °F</td>
<td>165</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion, ASTM D696, in/in•°F</td>
<td>3.5 x 10⁻⁵</td>
</tr>
<tr>
<td>Flexural Strength, ASTM C203, psi, min.</td>
<td>75</td>
</tr>
<tr>
<td>Dimensional Stability, ASTM D2126, % linear change, max.</td>
<td>2.0</td>
</tr>
<tr>
<td>Surface Burning Characteristics(4), ASTM E84, Flame Spread(5), ASTM E84</td>
<td>15</td>
</tr>
<tr>
<td>Smoke Development, ASTM E84</td>
<td>165</td>
</tr>
</tbody>
</table>

1 R means resistance to heat flow. The higher the R-value, the greater the insulating power.
2 Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first. Since STYROFOAM™ Extruded Polystyrene Foam Insulations are visco-elastic materials, adequate design safety factors should be used to prevent long-term creep and fatigue deformation.
3 Based on 1” thickness.
4 This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

HANDLING

WARNING: For Professional Use Only – Read and follow the entire Handling section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. The information below is designed to protect the user and allow for safe use and handling of Styrofoam™ Brand products.

Precautionary Statements
- Styrofoam™ Brand Plazamate™ Insulation is combustible; protect from high heat sources. Local building codes may require a protective or thermal barrier.
- For more information, consult MSDS, call DuPont at 1-866-583-2583 or contact your local building inspector.
- Dispose of any residual Styrofoam™ Brand product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.
- Follow all applicable federal, state, local and employer regulations.

Shelf Life and Storage
When stored outdoors, keep insulation boards tarped or covered to protect from weather and weighted down to prevent boards from being blown around by the wind. Store above standing water.
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DuPont™ Styrofoam™ Brand Extruded Polystyrene Foam Insulation

CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult (Material) Safety Data Sheet (MSDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3771 in Canada.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product. Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.