**Product Name**

STYROFOAM™ Brand
DURAMATE™ Plus Extruded
Polystyrene Foam Insulation

**Manufacturer**

The Dow Chemical Company
Dow Building Solutions
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1-866-583-BLUE (2583)
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**Product Description**

STYROFOAM™ Brand
DURAMATE™ Plus Extruded
Polystyrene foam insulation is
a tough extruded polystyrene
insulation board designed for
residential home construction. This
extra-strong, rigid and moisture-
resistant product is designed to
meet the performance requirements
of the industry.

**Applications**

STYROFOAM™ Brand
DURAMATE™ Plus Extruded
Polystyrene foam insulation is
particularly suitable for applications
where the foam sheathing is
fastened to frame walls.

Some key features and benefits
of STYROFOAM™ Brand
DURAMATE™ Plus Insulation
include:

- **Durability:** technology for stiffness
  plus extra-strong filmfacers to
  resist damage and thereby reduce
  waste on the job site
- **Moisture Resistance:** closed-cell
  foam core with plastic facers
- **Lightweight:** easy to handle
- **Stud Finders:** fast, accurate
  installation
- **Attachment:** can be attached
  using industry-accepted fasteners
- **STYROFOAM™ Brand
  DURAMATE™ Plus Insulation**
  can be installed as a water-resistive
  barrier*

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**Table 1: Features and Benefits of STYROFOAM™ Brand DURAMATE™ Plus Extruded Polystyrene Foam Insulation**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>High, long-term R-value**</td>
<td>Enhances thermal efficiency, reducing energy cost</td>
</tr>
<tr>
<td>High compressive strength, extra-strong facers</td>
<td>Resist damage, reducing job site waste</td>
</tr>
<tr>
<td>Closed-cell foam</td>
<td>Resists moisture in all forms, including water vapor</td>
</tr>
<tr>
<td>Printed stud finders</td>
<td>Enable fast, accurate installation</td>
</tr>
</tbody>
</table>

**Table 2: Physical Properties of STYROFOAM™ Brand DURAMATE™ Plus Extruded Polystyrene Foam Insulation**

<table>
<thead>
<tr>
<th>Property and Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Resistance(1) at nominal 1/2&quot;, ASTM C518 @ 75°F mean temp., ft²•h•°F/Btu, min., R-value**</td>
<td>3.0</td>
</tr>
<tr>
<td>Compressive Strength(2), ASTM D1621, psi, min.</td>
<td>15</td>
</tr>
<tr>
<td>Water Absorption, ASTM C272, % by volume, max.</td>
<td>0.3</td>
</tr>
<tr>
<td>Dimensional Stability(3), ASTM D2126, % linear change, max.</td>
<td>2.0</td>
</tr>
</tbody>
</table>

\(1\) R-values are consistent with criteria of ASTM C578 and requirements of FTC R-value rule (16 CFR Part 460).

\(2\) Vertical compressive strength is measured at 10 percent deformation or yield, whichever occurs first.

\(3\) Based on 1” thickness.

**R** means resistance to heat flow. The higher the **R**-value the greater the insulating power.

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**Sizes**

Square-edge boards of
STYROFOAM™ Brand
DURAMATE™ Plus Insulation are
available in nominal 1/2” thickness
in both 4’ x 8’ and 4’ x 9’ board sizes.

**Physical Properties**

STYROFOAM™ Brand
DURAMATE™ Plus Insulation
features the exceptional water
resistance properties of all
STYROFOAM™ Brand Insulation
products. The unique closed cell
structure of STYROFOAM™ Brand
Insulation helps resist moisture.

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* To qualify as a water-resistive barrier, must be installed according to the installation instructions developed for installation of foam sheathing as a water-resistive barrier on www.dowbuildingsolutions.com

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For features and benefits of STYROFOAM™ Brand DURAMATE™ Plus Insulation, refer to Table 1.

STYROFOAM™ Brand DURAMATE™ Plus Insulation exhibits the properties indicated in Table 2 when tested as represented.

CODE COMPLIANCES
STYROFOAM™ Brand DURAMATE™ Plus Insulation complies with the following codes:
- IBC/IRC – International Building Code/International Residential Code, meets requirements for foam plastic insulation
- UL – Underwriters Laboratories Inc. Classified
- ICC Evaluation Service ESR-2142

SAFETY CONSIDERATIONS
All persons who work with this material must know and follow the proper handling procedures. The current Material Safety Data Sheet (MSDS) contains additional information on the safe handling, storage and use of this material. A copy of the MSDS can be obtained by calling 1-866-583-BLUE (2583) or by contacting your local Dow representative.

INSTALLATION
Adding a 1/2" thickness of STYROFOAM™ Brand DURAMATE™ Plus Insulation under siding reduces heat flow through the framing and enhances the performance of fibrous batts in the stud cavities.

AVAILABILITY
STYROFOAM™ Brand DURAMATE™ Plus Insulation is available through an extensive network of distributors and dealers. For more information, call 1-800-232-2436.

TECHNICAL SERVICES
Dow can provide technical information to help address questions when using STYROFOAM™ Brand DURAMATE™ Plus Insulation. Technical personnel are available at 1-866-583-BLUE (2583).

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NOTICE: Changes to the International Residential Code require the installation of a water-resistant barrier (WRB) within most exterior wall assemblies in residential construction. The following Dow insulated sheathing products qualify as a WRB when installed according to the installation instructions developed for “installation of foam sheathing as a weather-resistant barrier”: STYROFOAM™ DURAMATE™ Plus, STYROFOAM™ Residential Sheathing, STYROFOAM™ Tongue and Groove, STYROFOAM SIS™, STYROFOAM™ Square Edge, STYROFOAM™ Residing Board, STYROFOAM™ High Performance Underlayment, THERMA™ Sheathing, TUFF-R™ and Super TUFF-R™ and therefore do not require the use of a building paper or a housewrap as a WRB. When a WRB is not needed, these Dow foam sheathings may be installed according to standard installation instructions for foam sheathing from Dow. Be sure products and installation instructions meet code requirements for your particular location. Note: STYROFOAM™ WEATHERMATE™ and STYROFOAM™ WEATHERMATE™ Plus Housewraps have already qualified as water-resistant alternatives to the prescribed felt (see Evaluation Reports NER-593 and NER-640 for approved alternative).

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 MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.