

Styrofoam™ Brand Duramate™ Plus Extruded Polystyrene Foam Insulation

Tough, Water-Resistant Insulation for Residential Construction

FEATURES/BENEFITS

Description

Styrofoam™ Brand Duramate™ Plus Extruded Polystyrene Foam Insulation* is a tough extruded polystyrene insulation board designed for residential home construction. The rigid, moisture-resistant sheathing is designed with proprietary extra-tough plastic on both sides to meet the high performance requirements of the industry.

Ease of Installation

Styrofoam™ Brand Duramate™ Plus Insulation can be installed as a water-resistive barrier**, particularly suitable for applications where the foam sheathing is fastened to frame walls. Adding a 1/2" thickness of Styrofoam™ Brand Duramate™ Plus Insulation under siding also reduces heat flow through the framing and enhances the performance of fibrous batts in the stud cavities.

Key features and benefits of Styrofoam™ Brand Duramate™ Plus Insulation include:

- Durability – technology for stiffness plus extra-strong film facers to resist damage and reduce waste on the job site
- Thermal efficiency – high, long-term R-value*** reduces energy costs
- Moisture Resistance – closed-cell foam core with plastic facers resists moisture in all forms, including water vapor
- Easy attachment – printed stud finders enable fast, accurate installation with industry-accepted fasteners

Available 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.

PROPERTIES

Styrofoam™ Brand Duramate™ Plus Insulation exhibits the properties indicated in Table 1 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.

TABLE 1: Physical Properties of Styrofoam™ Brand Duramate™ Plus Extruded Polystyrene Foam Insulation

Test Method	Property	Typical Value	Units
ASTM C518	Thermal Resistance ¹ at nominal 1/2" @ 75°F mean temp.	3.0	ft ² ·h·°F/Btu, min., R-value
ASTM D1621	Compressive Strength ²	15	psi, min.
ASTM C272	Water Absorption	0.3	% by volume, max.
ASTM D2126	Dimensional Stability ³	2.0	% linear change, max.

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.

* Styrofoam™ Brand Duramate™ Plus is a former product of The Dow Chemical Company

** 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 pbs.dupont.com

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

TESTING

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

HANDLING

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 1-866-583-2583 or by contacting your local DuPont representative.



**For more information visit us at
styrofoam.com/duramate
or call 1-866-583-2583**

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Styrofoam™ 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 ((M)SDS), 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 1-519-339-3711 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.

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