

DuPont™ Styrofoam™ Brand Residential Sheathing XPS Foam Insulation

Versatile Insulation with High Moisture and Thermal Resistance

FEATURES/BENEFITS

Description

DuPont™ Styrofoam™ Brand Residential Sheathing Insulation* is inherently resistant to moisture and is lightweight, making it easy to handle. Its thin plastic film coating enables it to withstand abuse during handling and around the job site.

Styrofoam™ Brand Residential Sheathing is designed for use when a 15 psi compressive strength (ASTM C578 Type X) product is needed.

Available Sizes

Styrofoam™ Brand Residential Sheathing is available in a range of sizes, R-values and edge treatments, found in Table 1.

Ease of Installation

Styrofoam™ Brand Residential Sheathing is:

- Manufactured for versatility in residential applications
- Available in square edge
- Easy to handle, cut and install
- Durable with thin plastic film to withstand job site handling
- High R-value and outstanding moisture resistance

Sustainable Solutions

Styrofoam™ Brand Residential Sheathing is reusable in many applications. It is hydrochlorofluorocarbon (HCFC) and hexabromocyclododecane (HBCD) free with zero ozone depletion potential and no-VOC (volatile organic compound) foaming agent technology. Styrofoam™ Brand insulation products produced in North America contain an average of 20% preconsumer recycled content certified by UL Environment Inc.

TABLE 1: Sizes, R-values and Edge Treatments for Styrofoam™ Brand Residential Sheathing Insulation

Thickness ¹	Dimensions	R-Value ²
0,55"	48 x 96	3.0
0,55"	48 x 108	3.0
0,55"	48 x 120	3.0
0,78"	48 x 96	4.0
1"	48 x 96	5.0
1"	48 x 108	5.0

¹ Not all product sizes are available in all regions. Additional product sizes are available by custom order. Consult your DuPont sales representative about other sizes and lead-time requirements.

² R-values are consistent with criteria of ASTM C578 and the requirements of the FTC R-value rule (16 CFR Part 460). Aged R-value at 1" cured foam @ 75°F mean temperature. R-value expressed in ft²·h·°F/Btu. R-value determined by ASTM C518 using the aging process in ASTM C578-17 (90 days @ 140°F or 180 days @ 74°F).

PROPERTIES

Styrofoam™ Brand Residential Sheathing Insulation exhibits physical properties as indicated in Table 2 when tested as represented. Review all instructions before use. Please contact DuPont at 1-866-583-2583 when additional guidance is required for writing specifications that include this product.

TABLE 2: Physical Properties of Styrofoam™ Brand Residential Sheathing Insulation

Test Method	Property	Typical Value	Units
ASTM C518-17	Thermal Resistance per inch @ 75°F mean temp.	5	ft ² ·h·°F/Btu, R-value ¹ , min.
ASTM D1621-16	Compressive Strength ²	15	psi, min.
ASTM C272-18	Water Absorption	0.1	% by volume, max.
	Maximum Use Temperature	165	°F
ASTM D696-16	Coefficient of Linear Thermal Expansion	3.5 x 10 ⁻⁵	in/in·°F

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

* Styrofoam™ Brand Residential Sheathing is a former product of The Dow Chemical Company

TESTING

Applicable Standards

DuPont™ Styrofoam™ Brand Residential Sheathing Insulation meets ASTM C578, Type X – Standard Specification for Rigid Cellular Polystyrene Thermal Insulation. Applicable standards include:

- **C518** – Standard Test Method for Steady State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- **D1621** – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- **C272** – Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions
- **E96** – Standard Test Methods for Water Vapor Transmission of Materials
- **D696** – Standard Test Method for Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer

Notice

Styrofoam™ Brand Residential Sheathing Insulation complies with the following codes:

- Meets IBS/IRC requirements for foam plastic insulation; see ICC-ES NER-699
- ICBO-ES ER-2257
- BOCA-ES RR 21-02
- Underwriters Laboratories, Inc. (UL) Classified, see Classification Certificate D369

Contact your DuPont sales representative or local authorities for state and local building code requirements and related acceptances.

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. Follow all applicable federal, state, local and employer regulations.

Precautionary Statements

- Prolonged exposure to ultraviolet radiation may cause the surface of **Styrofoam™ Brand Residential Sheathing Insulation** to become faded and dusty. Since dust would impair the performance of adhesives and finishes, the dusty surface should be brushed off before these products are applied.
- A light-colored, opaque protective covering should be used if excessive solar exposure is expected. The surface degradation will have no measurable effect on the insulating value of the plastic foam unless the deterioration is allowed to continue until actual foam thickness is lost.

- **Styrofoam™ Brand Residential Sheathing 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.

Disposal

Dispose of any residual Styrofoam™ Brand product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.



Styrofoam™
Brand

**For more information visit us at
styrofoam.com
or call 1-833-338-7668**

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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 ((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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