Styrofoam™ Brand Cladmate™ CM20

The XPS solution when a higher compressive strength is not required

OVERVIEW

Description

DuPont™ Styrofoam™ Brand CM20 Extruded Polystyrene (XPS) Insulation is a moisture-resistant, durable and lightweight extruded polystyrene foam board for interior frame wall sheathing, exterior or interior masonry wall insulation in new or retrofit construction, as well as residential basement floor slab insulation.

The closed-cell structure of **Styrofoam™ Brand CM20 XPS Insulation** boards helps ensure exceptional long-term thermal performance and high moisture resistance. Sized to fit snugly between wall ties, **Styrofoam™ Brand CM20 XPS Insulation** is also easy to handle, cut and install, helping to save time and money on the job site.



Features and Benefits

- **Increased Energy Efficiency:** Helps keep indoor temperature consistent. Helps reduce heating and cooling costs. Reduced potential for condensation in wall cavities.
- **Provides Continuous Layer of Insulation:** Reduces thermal bridging
- **Lightweight and Durable:** Easy to handle, cut and install. Helps save time and money on site.

Applications

- Interior frame wall sheathing
- Styrofoam™ Brand CM20 XPS Insulation is the ideal solution for the following applications:
- Exterior or interior masonry wall insulation

Sustainable Solutions

- Styrofoam™ Brand CM20 XPS Insulation uses DuPont™ BluEdge™ technology. It is hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential and a GWP <150. Styrofoam™ Brand CM20 Insulation is reusable in many applications and contains an average of 20% pre-consumer recycled content certified by UL Environment Inc.

Standard Sizes

Standard Sizes for DuPont™ Styrofoam™ Brand CM20 XPS Insulation

Thickness	Width	Length	R-Value	Edge Treatment
1.0 in.	2 ft.	8 ft.	5.0	4-Sided Shiplap
1.0 in.	2 ft.	8 ft.	5.0	Butt Edge
1.0 in.	4 ft.	8 ft.	5.0	4-Sided Shiplap
1.0 in.	4 ft.	9 ft.	5.0	2- Sided Shiplap
1.5 in.	2 ft.	8 ft.	7.5	Butt Edge
1.5 in.	2 ft.	8 ft.	7.5	4-Sided Shiplap
1.5 in.	4 ft.	8 ft.	7.5	4-Sided Shiplap
1.5 in.	4 ft.	9 ft.	7.5	2- Sided Shiplap
2.0 in.	2 ft.	8 ft.	10.0	Butt Edge
2.0 in.	2 ft.	8 ft.	10.0	4-Sided Shiplap
2.0 in.	4 ft.	8 ft.	10.0	Butt Edge
2.0 in.	4 ft.	8 ft.	10.0	4-Sided Shiplap
2.5 in.	2 ft.	8 ft.	12.5	2-Sided Shiplap
3.0 in.	2 ft.	8 ft.	15.0	Butt Edge
3.0 in.	2 ft.	8 ft.	15.0	4-Sided Shiplap
3.0 in.	4 ft.	8 ft.	15.0	Butt Edge
4.0 in.	2 ft.	8 ft.	20.0	Butt Edge

Note: Please be advised that additional sizes may be available. Availability of all sizes varies by region and is subject to change. For further information, please contact your local DuPont Sales Representative or call us at 1-866-338-7668.

TESTING AND CODE COMPLIANCE

Styrofoam™ Brand CM20 XPS Insulation exhibits physical properties as indicated in the table below when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-833-338-7668 when additional guidance is required for writing specifications that include this product.

TEST METHOD	TEST TITLE	PROPERTY	RESULTS
FIRE			
CAN/ULC-S102.2	Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies	Surface Burning Characteristics	Flame Spread - 295 Smoke Developed - 635
THERMAL			
CAN/ULC-S770	Standard Test Method for Determination of Long-Term Thermal Resistance of Closed-Cell Thermal Insulating Foams	Long-Term Thermal Resistance @ 23.8 °C (75°F) mean temp[1]	1.72 m^2· °C/W
ASTM C518[2]	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	Thermal Resistance per inch, @ 75°F mean temp.	5.0 ft^2·h·°F/Btu, R-value[3] min. (0.88 RSI)
ASTM D2126	Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging	Change in Dimensions	1.5 % linear change, max.
STRENGTH			
ASTM C203	Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation	Flexural Strength	303 kPa (44 psi), min.
WATER			
ASTM D2842	D2842-Test Method for Water Absorption of Rigid Cellular Plastics	Water Absorption	0.7 % by volume, max.

ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Permeance[5]	64 ng/Pa•s•m^2 (1.2 perm), max.

[1]Long-term predicted thermal resistance value for 50 mm thickness.

[2]Thermal values are consistent with the criteria of ASTM C578 and are not assessed by the CCMC. Depending on the product, a 15-, 30- or 50- year limited thermal warranty is available.

[5]Water vapor permeance varies with product type and thickness. Values are based on the desiccant method, and they apply to insulation 25.4 mm (1.0-inch) in thickness. Thicker products have lower permeance.

CODE COMPLIANCE

Styrofoam™ Brand CM20 XPS Insulation complies with the following codes:

CODE	DESCRIPTION
CAN Product Listings & Verifications	CCMC 11420-L Underwriters Laboratories, Inc. (UL) Classified

HANDLING

Warning

- **WARNING: For Professional Use Only** - Read and follow the entire Safety, Handling, and Storage section carefully before use. The information below is designed to protect the user and allow for safe use and handling of DuPont products.

  Due to the critical technical design aspects of many of its applications, DuPont recommends that qualified designers or consultants design your system. Follow all applicable federal, provincials, territories, local and employer regulations.

Precautionary Statements

- **CAUTION:** Styrofoam™ Brand XPS Insulation is combustible. 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 call the DuPont Contact Center at 866-583-2583 or contact your local building inspector. For emergencies contact Chemtrec 800-424-9300, CCN (Contract Number) 7442.
- Fabrication methods which involve cutting into this product may release the blowing agent(s) remaining in the cells. Provide adequate ventilation to assure localized concentrations in release areas are maintained below the lower flammable limit.

Supplemental Information

- The product meets the definition of an article and is exempt from US TSCA and Canadian DSL inventory requirements.

  Compliant with Title 42 Chapter 85 Clean Air Act: Subchapter VII American Innovation and Manufacturing Act of 2020, and Section 612 US EPA Significant New Alternative Policy. Global Warming Potential <150. This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

  Compliant with CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999, SOR/2016-137, 64.5 (1) Plastic foam or rigid foam product. Global Warming Potential <150.

Handling & Use

Product Limitations

- 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.

Cleanup & Disposal

- Dispose of any residual DuPont product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.
- Styrofoam™ Brand XPS Insulation is made of extruded polystyrene (XPS) and can be recycled at facilities that recycle XPS materials. Please check recycling facilities in your area to ensure they can recycle XPS Insulation.

Life & Storage

- In order to prevent buildup of combustible vapors, do not store large quantities of this product in unventilated spaces. Transport bulk shipments of this product in ventilated vehicles. During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.

  When stored outdoors, keep insulation boards covered with white plastic film or light-colored tarps to protect from weather and weighted down to prevent boards from being blown around by the wind.

  Store above standing water.

- Before installation, substrate must be clean, dry, smooth and free from oil, grease, rust, frost and snow. Since dust would impair the performance of adhesives and finishes, dusty surfaces should be brushed off before products are applied.
- Do not leave Styrofoam™ Brand XPS exposed to direct sunlight for more than 90 days. Consult a DuPont representative if exposure is expected to be longer than 90 days. Prolonged exposure to ultraviolet radiation may cause the surface of Styrofoam™ Brand XPS to become faded and dusty. The surface degradation will have no measurable effect on the insulating value of the foam unless the deterioration is allowed to continue until foam thickness is lost.
- Use gloves to protect from mechanical injury.

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