



THE DOW CHEMICAL COMPANY  
SALES SPECIFICATION

Date Printed: 2014-08-08

Effective Date: 07/09/2014

Supersedes Date: 07/08/2014

Name: STYROFOAM™ SM-X Extruded Polystyrene Foam

Specification Number: 000000398947

**Additional Product Information:**

Description Note

Board faces: with skin  
Edge treatment: Ship Lap  
Application: Insulation material - in visible applications  
Trade Product Code: 398947

**Government and Industry Standards**

XPS - EN 13164 - T1 - CS(10\Y)250 - DS(70,90) - MU150

**Final Testing Requirements**

Test and Test Condition	Limit	Unit	Method	Note
Thickness Tolerance <i>Applicable for: Thickness 0.1 - 49.9 mm</i>	-2.0 — 2.0	mm	EN 823	
Thickness Tolerance <i>Applicable for: Thickness 50.0 - 120.0 mm</i>	-2.0 — 3.0	mm	EN 823	
Thickness Tolerance <i>Applicable for: Thickness 120.1 - 999999.9 mm</i>	-2.0 — 6.0	mm	EN 823	
Width Tolerance <i>Applicable for: Width 0.1 - 999999.9 mm</i>	-3.0 — 3.0	mm	EN 822	
Length Tolerance	-10.0 — 10.0	mm	EN 822	
Squareness, ends	5.0 Max	mm/m	EN 824	

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<b>Test and Test Condition</b>	<b>Limit</b>	<b>Unit</b>	<b>Method</b>	<b>Note</b>
Flatness, in length <i>Applicable for: Length 0.1 - 999.9 mm</i>	7.0 Max	mm	EN 825	
Flatness, in width <i>Applicable for: Length 0.1 - 999.9 mm</i>	7.0 Max	mm	EN 825	
Flatness, in length <i>Applicable for: Length 1000.0 - 2000.0 mm</i>	14.0 Max	mm	EN 825	
Flatness, in width <i>Applicable for: Length 1000.0 - 2000.0 mm</i>	14.0 Max	mm	EN 825	
Flatness, in length <i>Applicable for: Length 2000.1 - 4000.0 mm</i>	21.0 Max	mm	EN 825	
Flatness, in width <i>Applicable for: Length 2000.1 - 4000.0 mm</i>	21.0 Max	mm	EN 825	
Flatness, in length <i>Applicable for: Length 4000.1 - 999999.9 mm</i>	28.0 Max	mm	EN 825	
Flatness, in width <i>Applicable for: Length 4000.1 - 999999.9 mm</i>	28.0 Max	mm	EN 825	
Comp. Strength, vertical, avg. value	250 Min	kPa	EN 826	
Declared Thermal Conductivity	29 Max	mW/m. K	EN 13164	
Density, typical	Report	kg/m <sup>3</sup>	EN 1602	1

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Water Absorption, by immersion	0.7 Max	%	EN 12087	
Fire Performance, Euroclass E Rating	Pass		EN 13501-1	

**Final Testing Requirements Notes:**

- The typical value for Density is 32 kg/m<sup>3</sup>.

**General Notes**

- WARNING!:** Fabrication methods, which involve cutting into this product, will release the flammable blowing agent remaining in the cells.

Provide adequate ventilation. In order to prevent build-up of combustible vapors, do not store large quantities of this product in unventilated spaces.

Transport bulk shipments of this product in ventilated vehicles and containers.

- CAUTION!:** This material contains a halogenated flame retardant system to inhibit accidental ignition from small fire sources. During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.

- Standard Dimensions

Width: 600 mm  
 Length: 2500 mm  
 Thicknesses: mm

- Storage Notes

- This product can be stored OUTSIDE.
- Protect from direct sunlight if prolonged outside storage.
- Do not use dark colored protective coverings.

READ PRECAUTIONARY INFORMATION AND MATERIAL SAFETY SHEETS. THIS PRODUCT IS SHIPPED IN COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING CLASSIFICATION, PACKAGING, SHIPPING AND LABELING.