



THE DOW CHEMICAL COMPANY
SALES SPECIFICATION

Date Printed: 2014-06-04

Effective Date: 05/02/2014

Supersedes Date: 02/19/2014

Name: STYROFOAM™ LB-X Extruded Polystyrene Foam

Specification Number: 000000074515

Previous Specified Material: 00119256

Additional Product Information:

Description Note

Board faces: planed

Edge treatment: Butt Edge

Application: lamination board for building panels

Trade product code: 74515

Government and Industry Standards

XPS - EN 13164 - T3 - CS(10\Y)300 - DS(70,90) - WL(T)1,5 - TR400 - SS250 - MU150

Final Testing Requirements

| Test and Test Condition | Limit | Unit | Method | Note |
|---|------------|------|--------|------|
| Thickness Tolerance <i>Applicable for: Thickness 0.1 - 999999.9 mm</i> | -0.5 — 0.5 | mm | EN 823 | |
| Width Tolerance <i>Applicable for: Width 0.1 - 699.9 mm</i> | 0.0 — 3.0 | mm | EN 822 | |
| Width Tolerance <i>Applicable for: Width 700.0 - 999999.9 mm</i> | 0.0 — 5.0 | mm | EN 822 | |
| Length Tolerance | 0.0 — 10.0 | mm | EN 822 | |
| Thickness Uniformity | 1.0 Max | mm | EN 823 | |
| Squareness, ends | 5.0 Max | mm/m | EN 824 | |
| Flatness, in length | 2.0 Max | mm/m | EN 825 | |
| Flatness, in width | 4.0 Max | mm/m | EN 825 | |

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Final Testing Requirements

| Test and Test Condition | Limit | Unit | Method | Note |
|---|--------------|-------------|---------------|-------------|
| Comp. Strength, vertical, avg. value | 300 Min | kPa | EN 826 | |
| Compressive Modulus, vertical, typical <i>Applicable for: Thickness 0.1 - 30.0 mm</i> | 10 Min | MPa | EN 826 | 1 |
| Compressive Modulus, vertical, typical <i>Applicable for: Thickness 30.1 - 80.0 mm</i> | 12 Min | MPa | EN 826 | 2 |
| Compressive Modulus, vertical, typical <i>Applicable for: Thickness 80.1 - 999999.9 mm</i> | 15 Min | MPa | EN 826 | 3 |
| Tensile Strength, vertical | 500 Min | kPa | EN 1607 | |
| Tensile Modulus, vertical, typical <i>Applicable for: Thickness 50.0 - 999999.9 mm</i> | 17 Min | MPa | EN 1607 | 4 |
| Shear Strength | 250 Min | kPa | EN 12090 | |
| Shear Modulus, typical | 8 Min | MPa | EN 12090 | 5 |
| Declared Thermal Conductivity <i>Applicable for: Thickness 0.1 - 70.0 mm</i> | 29 Max | mW/m. K | EN 13164 | |
| Declared Thermal Conductivity <i>Applicable for: Thickness 70.1 - 999999.9 mm</i> | 30 Max | mW/m. K | EN 13164 | |
| Density, typical | Report | kg/m3 | EN 1602 | 6 |
| Water Absorption, by immersion | 1.5 Max | % | EN 12087 | |
| Fire Performance, Euroclass E Rating | Pass | | EN 13501-1 | |

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Final Testing Requirements Notes:

- 1 The typical value for Compressive Modulus, vertical is 12 MPa for thicknesses ≤ 30 mm.
- 2 The typical value for Compressive Modulus, vertical is 15 MPa for thicknesses > 30 mm and ≤ 80 mm.
- 3 The typical value for Compressive Modulus, vertical is 20 MPa for thicknesses > 80 mm.
- 4 The typical value for Tensile Modulus, vertical is 24 MPa for thicknesses ≥ 50 mm.
- 5 The typical value for Shear Modulus is 10 MPa.
- 6 The typical value for Density is 33 kg/m³.

General Notes

- 1 **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.

- 2 **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.

- 3 Storage Notes

- This product should be stored INSIDE.
- Protect from direct sunlight if prolonged outside storage.

- 4 Standard Dimensions

a. for the Central European market:

- Width: 600, 1200 mm
- Length: 2500 mm
- Thicknesses: 20, 25, 30, 40, 60 and 80 mm

- Width: 1200 mm
- Length: 2500 mm
- Thicknesses: 40, 50, 60 and 80 mm

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General Notes

b. for the UK market.

- Width: 605 mm
- Length: 2438 mm
- Thicknesses: 50, 75 mm

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