



**THE DOW CHEMICAL COMPANY
SALES SPECIFICATION**

Date Printed: 2014-01-30

Effective Date: 2014-01-21

Supersedes Date: 2013-06-11

Name: STYROFOAM™ HD 300F-GV-X Extruded Polystyrene Foam

Specification Number: 000000084548

Previous Specified Material: 00125808

Additional Product Information:

Board faces: planed, with grooves

Edge treatment: Butt Edge

Application: refrigerated truck floor and other high
compressive strength applications

Trade Product Code: 84548

Government and Industry Standards

XPS - EN 13164 - T3 - CS(10\Y)700 - CC(2/1,5/50)210 - DS(70,90) - DLT(2)5 - WL(T)0,7 - TR900 - MU150

Test and Test Condition	Final Testing Requirements			
	Limit	Unit	Method	Note
Thickness Tolerance	-0.5 — 0.5	mm	EN 823	
Width Tolerance, for widths <700mm	0 — 3	mm	EN 822	
Length Tolerance	0 — 10	mm	EN 822	
Thickness Uniformity	1 Max	mm	EN 823	
Squareness, ends	5 Max	mm/m	EN 824	
Flatness, in length	2 Max	mm/m	EN 825	
Flatness, in width	4 Max	mm/m	EN 825	
Compressive Strength, vertical	700 Min	kPa	EN 826	
Compressive Modulus, vertical, typical; for thicknesses >30mm & <=80mm	25 Min	MPa	EN 826	1

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Final Testing Requirements

Test and Test Condition	Limit	Unit	Method	Note
Compressive Modulus, vertical, typical; for thicknesses >80mm	30 Min	MPa	EN 826	2
Long Term Load, 50 Y, <2% Deformation	210 Aim	kPa	EN 1606	
RCS 90Days, French Regulation Requirement	420 Aim	kPa	NFP 75-401-1	
DS 90Days, French Regulation Requirement	1.0 — 2.0	%	NFP 75-401-1	
Tensile Strength, vertical	950 Min	kPa	EN 1607	
Tensile Modulus, vertical, typical; for thicknesses >=50mm	19 Min	MPa	EN 1607	3
Shear Strength	450 Min	kPa	EN 12090	
Shear Modulus, typical	14 Min	MPa	EN 12090	4
Declared Thermal Conductivity	29 Max	mW/m.K	EN 13164	
Thermal Conductivity, at 10degC; 60 days; measured, for thicknesses <=50mm	Report	mW/m.K	EN 12667/EN 12939	5
Thermal Conductivity, at 10degC; 60 days; measured, for thicknesses >50mm	Report	mW/m.K	EN 12667/EN 12939	6
Density	45 Min	kg/m3	EN 1602	
Water Absorption, by immersion	0.7 Max	%	EN 12087	
Fire Performance, Euroclass E Rating	Pass		EN 13501-1	
Deformation, (under spec. compr. load and temp), DLT(2)5	5 Max Pass	%	EN 1605	

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Final Testing Requirements Notes:

- 1 Compressive Modulus, vertical, for thicknesses >30mm and ≤80mm Note
 The nominal value for **Compressive Modulus, vertical, for thicknesses >30mm and ≤80mm** = 33 MPa.
- 2 Compressive Modulus, vertical, for thicknesses >80mm Note
 The nominal value for **Compressive Modulus, vertical, for thicknesses >80mm** = 38 MPa.
- 3 Tensile Modulus, vertical, for thicknesses ≥50mm Note
 The nominal value for **Tensile Modulus, vertical, for thicknesses ≥50mm** = 31 MPa.
- 4 Shear Modulus Note
 The nominal value for **Shear Modulus** = 17 MPa.
- 5 Thermal Conductivity, at 10°C, 60 days, measured, for thicknesses ≤50mm Notes
 - For industrial applications (diffusion tight facings on both sides), average value.
 - The nominal value for **Thermal Conductivity, at 10°C, 60 days, measured, for thicknesses ≤50mm** = 27.0 mW/m.K.
- 6 Thermal Conductivity, at 10°C, 60 days, measured, for thicknesses >50mm Notes
 - For industrial applications (diffusion tight facings on both sides), average value.
 - The nominal value for **Thermal Conductivity, at 10°C, 60 days, measured, for thicknesses >50mm** = 25.0 mW/m.K.

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

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General Notes

spaces.

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

3 Storage Notes

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

4 Standard Dimensions

Length	Width	Thickness
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2500 mm	600 mm	40, 50, 60 and 80 mm
2510 mm	600 mm	100 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.