

Date Printed: 28 NOV 2011

SPECIFIED MATERIAL: 00123896-S

Effective: 28 NOV 2011
Supersedes: 14 JUN 2011

NAME: STYROFOAM(TM) RTM-GV-X Extruded Polystyrene Foam

MATERIAL DESCRIPTION:

Color: blue
Odor: odorless
Appearance/Physical State: board

Description Note:

Board faces: planed with grooves
Edge treatment: Butt Edge
Application: core material for refrigerated truck panels
Trade product code: 83185

Fire Classification Note:

The national fire performance test standards and regulations may differ from country to country. In parallel there is the European fire classification which applies in those EU countries where the European fire classification system has already been adopted.

Customers are kindly asked to contact the responsible DOW Sales Office to obtain more details.

GOVERNMENT/INDUSTRY STANDARDS:

XPS - EN 13164 - T3 - CS(10Y)400 - DS(TH) - TR600

TEST REQUIREMENTS

TEST ITEM AND CONDITION	LIMIT	UNIT	METHOD	N
Thickness Tolerance	-0.5 Min +0.5 Max	mm	EN 823	
Width Tolerance, for width <700mm	-0 Min +3 Max	mm	EN 822	
Width Tolerance, for width ≥700mm	-0 Min +5 Max	mm	EN 822	
Length Tolerance	-0 Min +10 Max	mm	EN 822	
Thickness Uniformity	1 Max	mm	EN 823	
Squareness, of ends	5 Max	mm/m	EN 824	
Squareness, of edges	2 Max	mm	EN 824	

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TEST REQUIREMENTS (CONTINUED)

TEST ITEM AND CONDITION	LIMIT	UNIT	METHOD	N
Flatness, in length	2 Max	mm/m	EN 825	
Flatness, in width	4 Max	mm/m	EN 825	
Compressive Strength, vertical	400 Min	kPa	EN 826	
Compressive Modulus, (vertical), for thickness <=30mm	14 Min 17 Nom typical	MPa	EN 826	
Compressive Modulus, (vertical), for thickness >30mm and <=80mm	17 Min 22 Nom typical	MPa	EN 826	
Compressive Modulus, (vertical), for thickness >80mm	22 Min 28 Nom typical	MPa	EN 826	
Tensile Strength, vertical	700 Min	kPa	EN 1607	
Tensile Modulus, (vertical), for thickness >=50mm	18 Min 28 Nom typical	MPa	EN 1607	
Shear Strength	400 Min	kPa	EN 12090	
Shear Modulus	10 Min 13 Nom typical	MPa	EN 12090	
Declared Thermal Conductivity, for thickness <=140mm	29 Max	mW/m.K	EN 13164	1
Declared Thermal Conductivity, for thickness >140mm	31 Max	mW/m.K	EN 13164	2
Thermal Conductivity, at 10degC 60Days Measured, for thickness <=50mm	27.0 Nom	mW/m.K	EN 12667/EN 12939	3
Thermal Conductivity, at 10degC 60Days Measured, for thickness >50mm	25.0 Nom	mW/m.K	EN 12667/EN 12939	4

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TEST REQUIREMENTS (CONTINUED)

TEST ITEM AND CONDITION	LIMIT	UNIT	METHOD	N
Density	40 Min	kg/m3	EN 1602	
Water Absorption, by immersion	1.0 Max	%	EN 12087	
Fire Performance, for Germany	B1		DIN 4102 Part 1	
Fire Performance, (Reaction to Fire)	Euroclass E		EN 13501-1	

Test Requirements Notes:

1. For building applications, declared value
2. For building applications, declared value
3. Standard dimensions are:

Length	Width	Thickness:
a) for Central European market:		
2500	600	20, 25, 30, 40, 50, 60, 70, 80, 100, 120 mm.
b) for UK market:		

A new specification has been created without CE mark.
4. 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.

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. This product should be stored INSIDE. Protect from direct sunlight if prolonged outside storage.
3. Standard dimensions are:

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NOTES (CONTINUED)

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5. TM: TRADEMARK OF THE DOW CHEMICAL COMPANY

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