

BUILDING PRODUCTS LISTING PROGRAM

Customer: EPS Molders Inc. dba Great White Foam
Class: Thermal Insulation
Location: Edmonton, AB
Website: <http://www.greatwhitefoam.ca>

Listing No. B1129-1
Project No. B1129-1, Edition 1
Effective Date: November 29, 2021
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Standards: CAN/ULC S701.1 *Standard for Thermal Insulation, Polystyrene Boards.*
CAN/ULC S102.2 *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.*
ASTM D6817 *Standard Specification for Rigid Cellular Polystyrene Geofoam.*

Product: Expanded Polystyrene Foam Plastic Insulation Products as outlined below:

- Type 1, Type 2, and Type 3 Thermal Insulation.
- EPS12, EPS15, EPS22, EPS29, EPS39, EPS40, EPS46 Geofoam Products.

Markings: Product is marked with labels supplied by EPS Molders Inc. dba Great White Foam. The label includes:
a) Manufacturer's name
b) Product name
c) Traceability code.
d) CAN/ULC-S701.1 Type.
e) CAN/ULC S102.2 Flame Spread and Smoke Developed Ratings.
f) RSI Value.
g) QAI certification mark outlined below:



Ratings: **The following outlines Great White Foam product’s Thermal Insulation Performance determined in accordance with the noted standards.**

Great White Foam Expanded Polystyrene Thermal Insulation Performance

PROPERTY	TYPE 1	TYPE 2	TYPE 3
Thermal Resistance Minimum at 25 mm Thickness (m ² *°C/W)	0.65	0.70	0.74
Water Vapour Permeance Maximum at 25 mm Thickness (Ng/Pa*s*m ²)	300	200	130
Dimensional Stability Maximum Linear Change (%)	1.5	1.5	1.5
Flexural Strength Minimum (kPa)	170	240	300
Water Absorption By Volume Maximum (%)	6.0	4.0	2.0
Compressive Strength Minimum at 10% Deformation (kPa)	70	110	140
Limiting Oxygen Index Minimum (%)	24	24	24

Great White Foam Expanded Polystyrene Thermal Insulation surface burning characteristics determined in accordance with CAN/ULC S102.2.

GREAT WHITE FOAM THERMAL INSULATION ¹	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
Type 1, Type 2, Type 3, EPS12, EPS15, EPS22, EPS29	Maximum 32 kg/m ³	100 mm Maximum	≤ 230	≥ 500

Note¹: EPS 39 and EPS46 products are molded at minimum 38 kg/m³ density. As such, these products are not classified for surface burning characteristics noted and are not considered eligible for use as interior insulation products.

Great White Foam Expanded Polystyrene Geofoam products have the following physical performance:

PROPERTY	EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46
Density Minimum kg.m ³ (lbs/ft ³)	11.2 (0.70)	14.4 (0.90)	18.4 (1.15)	21.6 (1.35)	28.8 (1.80)	38.4 (2.40)	45.7 (2.85)
Compressive Strength kPa (psi) @:							
1% Compression:	15 (2.2)	25 (3.6)	40 (5.8)	50 (7.3)	103 (10.9)	128 (18.6)	128 (18.6)
5% Compression:	35 (5.1)	55 (8.0)	90 (13.1)	115 (16.7)	170 (24.7)	241 (35.0)	300 (43.5)
10% Compression:	40 (5.8)	70 (10.2)	110 (16.0)	135 (19.6)	200 (29.0)	276 (40.0)	345 (50.0)
Flexural Strength Minimum kPa (psi)	69 (10.0)	172 (25.0)	207 (30.0)	240 (35.0)	345 (50.0)	414 (60.0)	517 (75.0)
Oxygen Index Minimum (%)	24.0	24.0	24.0	24.0	24.0	24.0	24.0

Notes: Final acceptance of the product in the intended application is to be determined by the authority having jurisdiction.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI. No warranty is expressed or implied, and no guarantee is provided that any jurisdictional authority will accept the Listing found herein. The appropriate authorities should be contacted regarding the acceptability of any given Listing. Visit the QAI Online Listing Directory located at www.qai.org for the most up to date version of this Listing and to validate that this QAI Listing is active. Questions regarding this listing may be directed to info@qai.org. Please include the listing number in the request.
