

# BOZC7.R16529 - Polystyrene Insulation Certified for Canada

## Polystyrene Insulation Certified for Canada

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**ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION**

R16529

8240 BYRON CENTER AVE SW

BYRON CENTER, MI 49315-8866 USA

Expanded polystyrene foamed plastic in the form of board insulation.

Material Details	Classification or Rating		
	Nominal Density, kg/m <sup>3</sup>	Flame Spread	Smoke Developed
EPS board materials, nominal 25 mm (min) to 100 mm (max)	12.8 to 40.0	210	over 500

When examined for physical characteristics, compliance with the following requirements was determined:

Property	Type 1	Type 2	Type 3
Nominal density+, kg/m <sup>3</sup>	16.00	24.00	32.00
Thermal resistance*, min, m <sup>2</sup> C/W	0.65	0.7	0.74
Water vapor permeance**, max, ng/Pa×s×m <sup>2</sup>	300.0	200.0	130.0
Dimensional stability, max, % linear change	1.5	1.5	1.5
Flexural strength, min, kPa	170.0	240.0	300.0
Water absorption, max, % by volume	6.0	4.0	2.0
Compressive strength, min, kPa	70.0	110.0	140.0
Limiting Oxygen Index, min, %	24	24	24

Expanded polystyrene foamed plastic in the form of board insulation.

Listed as to surface burning characteristics in accordance with CAN/ULC-S102.2 and as to physical properties in accordance with CAN/ULC-S701 (supersedes CAN/CGSB-51.20) as indicated.

Material Details	Classification or Rating		
	Nominal Density, kg/m <sup>3</sup>	Flame Spread	Smoke Developed
Integrity, Atlas EPS or ThermalStar	40 max	290	over 500

Thermal Star GX	32 max	230	500
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When examined for physical characteristics, compliance with the following requirements was determined:

### "Integrity", "Atlas EPS" or "ThermalStar"

Property	Type 1	Type 2	Type 3
Nominal Density+, kg/m <sup>3</sup>	16	24	28
Thermal Resistance*, min, m <sup>2</sup> °C/W	0.65	0.70	0.74
Water vapour permeance**, max, ng/Pa·s·m <sup>2</sup>	300	200	130
Dimensional stability, max, % linear change	1.5	1.5	1.5
Flexural strength, min, kPa	170	240	300
Water absorption, max, % by volume	6	4	2
Compressive strength, min, kPa	70	110	140
Limiting Oxygen Index, min, %	24	24	24

### "Thermal Star GX"

Property	Type 1
Nominal Density+, kg/m <sup>3</sup>	16
Thermal Resistance*, min, m <sup>2</sup> °C/W	0.65
Water vapour permeance**, max, ng/Pa·s·m <sup>2</sup>	300
Dimensional stability, max, % linear change	1.5
Flexural strength, min, kPa	170
Water absorption, max, % by volume	6
Compressive strength, min, kPa	70
Limiting Oxygen Index, min, %	24

+ Density values given for reference purposes only and are not included in the CAN/ULC-S701 (supersedes CAN/CGSB-51.20) Standard.

\* Values at 24°C using 25 mm thick sample.

\*\* Values quoted are maximum values for 25 mm thick sample. Lower values will result for thicker materials.

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