

Polystyrene Insulation Certified for Canada

COMPANY

Atlas Molded Products, a Division of Atlas Roofing Corporation

8240 BYRON CENTER AVE SW

BYRON CENTER, MI 49315-8866 United States

R16529

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-S701.1 (formerly CAN/ULC-S701) as indicated.

Classification or Rating

Material Details	Nominal Density, kg/m³	Flame Spread	Smoke Developed
"Atlas Molded Polystyrene", "ThermalStar"	40 max	290	over 500
"ThermalStar GPS", "ThermalStar LCI GPS", "ThermalStar LWI GPS", or "ThermalStar SWI GPS"	32 max	230	500

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

"Atlas Molded Polystyrene", "ThermalStar"

Property	Type 1	Type 2	Type 3
Nominal Density+, kg/m ³	16	24	28
Thermal Resistance*, min, m ² °C/W	0.65	0.70	0.74
Water vapour permeance**, max, ng/Pa·s·m ²	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

Feedback

*ThermalStar GPS", "ThermalStar LCI GPS", "ThermalStar LWI GPS", or "ThermalStar SWI GPS"

Property	Type 1
Nominal Density+, kg/m ³	16
Thermal Resistance*, min, m ² °C/W	0.65
Water vapour permeance**, max, ng/Pa•s•m ²	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.

Last Updated on 2022-10-18

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