

Product Information Bulletin

BULLETIN NO.

211

ISSUED:

August 12, 2019

REPLACES:

September 12, 2017

PlastiSpan® Insulation - CAN/ULC-S701.1, Type 1 Material Properties

PlastiSpan® insulation is a rigid, closed-cell expanded polystyrene (EPS) insulation that meets or exceeds material property requirements for CAN/ULC-S701.1 (formerly CAN/ULC-S701), Type 1. The table below provides material properties for **PlastiSpan** insulation.

Material Properties ¹	Units	Values
Thermal Resistance Minimum per 25 mm (1 inch) ASTM C518	m ² •°C/W (ft ² •h•°F/BTU)	0.65 (3.75)
Compressive Resistance Minimum @ 10% Strain ASTM D1621	kPa (psi)	70 (10)
Flexural Strength Minimum ASTM C203	kPa (psi)	170 (25)
Water Vapour Permeance ² Maximum ASTM E96	ng/(Pa·s·m ²) (Perms)	300 (5.2)
Water Absorption ³ Maximum ASTM D2842	% By volume	6.0
Dimensional Stability Maximum ASTM D2126	% Linear Change	1.5
Limiting Oxygen Index Minimum ASTM D2863	%	24
Surface Burning Characteristics Rating or Classification CAN/ULC S102.2	Flame Spread	290
	Smoke Developed	Over 500

Sustainability

As part of its commitment to ongoing sustainability initiatives, Plasti-Fab maintains **GREENGUARD Gold Certification** for **PlastiSpan** insulation with UL Environment, an independent global safety science organization. The **GREENGUARD Gold Certification** mark on **PlastiSpan** insulation gives assurance that insulation designed for use in indoor spaces meets strict chemical emissions limits, which contribute to the creation of healthier interiors (see Plasti-Fab PIB 266).

¹. **PlastiSpan** insulation material properties are third party certified to CAN/ULC-S701.1, **Standard for Thermal Insulation, Polystyrene Boards**, under an Intertek third party certification program (see Intertek Code Compliance Research Report CCRR-1072 for additional information) and is listed by the Canadian Construction Materials Centre (CCMC) under evaluation listing number 12424-L (Type 1).

². WVP values quoted are maximum values for 25-mm (1-inch) thick samples with natural skins intact. Lower values will result for thicker materials.

³. The water absorption laboratory test method involves complete submersion under a head of water for 96 hours. The water absorption values above are applicable to specific end-use design requirements only to the extent that the end-use conditions are similar to test method requirements.