

Product Information Bulletin

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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 <i>Minimum per 25 mm (1 inch)</i> ASTM C518	m ² ·°C/W (ft ² ·h·°F/BTU)	0.65 (3.75)
Compressive Resistance <i>Minimum @ 10% Strain</i> ASTM D1621	kPa (psi)	70 (10)
Flexural Strength <i>Minimum</i> ASTM C203	kPa (psi)	170 (25)
Water Vapour Permeance ² <i>Maximum</i> ASTM E96	ng/(Pa·s·m ²) (Perms)	300 (5.2)
Water Absorption ³ <i>Maximum</i> ASTM D2842	% By volume	6.0
Dimensional Stability <i>Maximum</i> ASTM D2126	% Linear Change	1.5
Limiting Oxygen Index <i>Minimum</i> ASTM D2863	%	24
Surface Burning Characteristics <i>Rating or Classification</i> 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 CCCR-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.