

Product Information Bulletin

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PlastiSpan® HD Insulation - CAN/ULC-S701, Type 2 Material Properties

PlastiSpan® HD insulation is a rigid, closed-cell insulation that meets requirements for expanded polystyrene (EPS) insulation manufactured to CAN/ULC-S701, Type 2. The table below provides material properties for **PlastiSpan HD** insulation.

Material Properties ¹	Test Method	Units	Values
Thermal Resistance <i>Minimum per 25 mm (inch)</i>	ASTM C518	m ² ·°C/W (ft ² ·h·°F/BTU)	0.70 (4.04)
Compressive Resistance <i>Minimum @ 10% Deformation</i>	ASTM D1621	kPa (psi)	110 (16)
Flexural Strength <i>Minimum</i>	ASTM C203	kPa (psi)	240 (35)
Water Vapour Permeance² <i>Maximum</i>	ASTM E96	ng/(Pa·s·m ²) (Perms)	200 (3.5)
Water Absorption³ <i>Maximum</i>	ASTM D2842	% By Volume	4.0
Dimensional Stability <i>Maximum, 7 Days @ 70 ± 2°C (158 ± 4°F)</i>	ASTM D2126	% Linear Change	1.5
Limiting Oxygen Index <i>Minimum</i>	ASTM D2863	% Volume	24
Surface Burning Characteristics <i>Classification or Rating</i>	CAN/ULC S102.2	Flame Spread	220
		Smoke Developed	Over 500

Sustainability

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

- PlastiSpan HD** insulation properties are third party certified to CAN/ULC-S701, **Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering**, under a certification program administered by Intertek and is listed by the Canadian Construction Materials Centre (CCMC) under evaluation listing number 12425-L (Type 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.
- 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.