

Product Information Bulletin

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PlastiSpan® 25 Insulation - CAN/ULC-S701, Type 3 Material Properties

PlastiSpan® 25 insulation is a rigid, closed-cell insulation that meets or exceeds requirements for expanded polystyrene (EPS) insulation manufactured to CAN/ULC-S701, Type 3. The table below provides material properties for **PlastiSpan 25** insulation.

Material Properties ¹	Test Methods	Units	Values
Thermal Resistance <i>Minimum per 25 mm (inch)</i>	ASTM C518	m ² ·°C/W (ft ² ·h·°F/BTU)	0.74 (4.27)
Compressive Resistance² <i>Minimum @ 10% Deformation</i>	ASTM D1621	kPa (psi)	170 (25)
Flexural Strength <i>Minimum</i>	ASTM C203	kPa (psi)	300 (44)
Water Vapour Permeance³ <i>Maximum</i>	ASTM E96	ng/(Pa·s·m ²) (Perms)	130 (2.25)
Water Absorption⁴ <i>Maximum</i>	ASTM D2842	% By volume	2.0
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	%	24
Surface Burning Characteristics <i>Classification or Rating</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 25** insulation with UL Environment, an independent global safety science organization. The **GREENGUARD Gold Certification** mark on **PlastiSpan 25** 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 25** 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 12426-L (Type 3).
- PlastiSpan 25** insulation compressive resistance exceeds requirement for CAN/ULC-S701, Type 3.
- 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.