

Product Information Bulletin

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PlastiSpan® Insulation Material Property Data Sheet CAN/ULC-S701-11, Type 1

CAN/ULC-S701-11, **Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering** is the National Standard of Canada for moulded expanded polystyrene (EPS) insulation. The table below provides material properties for **PlastiSpan** insulation meeting CAN/ULC-S701, Type 1.

Material Property	Test Method	Units	Values ¹
Thermal Resistance <i>Minimum RSI per 25 mm (R per inch)</i>	ASTM C518	m ² ·°C/W (ft ² ·h·°F/BTU)	0.65 (3.75)
Compressive Resistance <i>Minimum @ 10% Deformation</i>	ASTM D1621	kPa (psi)	70 (10)
Flexural Strength <i>Minimum</i>	ASTM C203	kPa (psi)	170 (25)
Water Vapour Permeance² <i>Maximum</i>	ASTM E96	ng/(Pa·s·m ²) (Perms)	300 (5.2)
Water Absorption³ <i>Maximum</i>	ASTM D2842	% By volume	6.0
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

1. PlastiSpan insulation properties are third party certified under a certification program administered by Intertek Testing Services and 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 value above is applicable to specific end-use design requirements only to the extent that the end-use conditions are similar to test method requirements.