

Product Information Bulletin

PlastiSpan® XD Insulation Material Property Data Sheet CAN/ULC-S701-11, Type 3

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 XD** insulation meeting CAN/ULC-S701, Type 3.

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)	0.74 (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

1. PlastiSpan XD 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 12426-L (Type 3).
2. The minimum compressive resistance PlastiSpan XD insulation exceeds the requirement per CAN/ULC-S701-11, type 3.
3. WVP values quoted are maximum values for 25-mm thick samples with natural skins intact. Lower values will result for thicker materials.
4. 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.