

## Product Information Bulletin

### PlastiSpan® 30 Insulation Material Property Data Sheet

**PlastiSpan® 30** insulation is a closed cell expanded polystyrene (EPS) insulation that meets the requirements of CAN/ULC-S701-11, **Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering**. The closed cell structure of **PlastiSpan 30** insulation resists water absorption so it will retain its R-value even in applications where severe temperature differentials occur.

**PlastiSpan 30** provides a minimum compressive resistance of 210 kPa (30 psi). The high compressive resistance of **PlastiSpan 30** insulation makes it ideal for use low temperature freezer floor applications or other applications where moderately heavy loads are expected.

Material Property	Test Method	Units	Values <sup>1</sup>
<b>Compressive Resistance<sup>2</sup></b> <i>Minimum @ 10% Deformation</i>	ASTM D1621	kPa	210
		(psi)	(30)
<b>Compressive Modulus</b> <i>Minimum</i>		kPa	7,500
		(psi)	(1,088)
<b>Thermal Resistance</b> <i>Minimum per 25 mm (1 inch)</i>	ASTM C518	m <sup>2</sup> ·°C/W (ft <sup>2</sup> ·h·°F/BTU)	0.74 (4.27)
<b>Flexural Strength</b> <i>Minimum</i>	ASTM C203	kPa (psi)	345 (50)
<b>Water Vapour Permeance<sup>3</sup></b> <i>Maximum</i>	ASTM E96	ng/(Pa·s·m <sup>2</sup> ) (Perms)	130 (2.26)
<b>Water Absorption<sup>4</sup></b> <i>Maximum</i>	ASTM D2842	% By volume	2.0
<b>Dimensional Stability</b> <i>Maximum, 7 Days @ 70 ± 2 °C (158 ± 4 °F)</i>	ASTM D2126	% Linear Change	1.5
<b>Limiting Oxygen Index</b> <i>Minimum</i>	ASTM D2863	%	24

1. PlastiSpan 30 insulation material properties meet or exceed requirements for CAN/ULC-S701, type 3.
2. PlastiSpan 30 insulation compressive resistance exceeds minimum requirement for CAN/ULC-S701, 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.