

# Product Information Bulletin

BULLETIN NO.

214

ISSUED:

January 18, 2016

REPLACES:

November 18, 2015

## PlastiSpan®, PlastiSpan HD & PlastiSpan 25 Insulation Material Property Data Sheet - CAN/ULC-S701 - Types 1, 2 and 3

**PlastiSpan®** insulation, a rigid, closed-cell insulation, expanded polystyrene (EPS) insulation meets CAN/ULC-S701<sup>1</sup> requirements. The table below provides material properties for **PlastiSpan** (Type 1), **PlastiSpan HD** (Type 2) and **PlastiSpan 25** (Type 3) insulation.

Material Properties	Test Methods	Units	Type 1	Type 2	Type 3
<b>Thermal Resistance</b> Minimum per 25 mm (inch)	ASTM C518	$m^2 \cdot ^\circ C/W$ ( $ft^2 \cdot h \cdot ^\circ F/BTU$ )	0.65 (3.75)	0.70 (4.04)	0.74 (4.27)
<b>Compressive Resistance<sup>2</sup></b> Minimum @ 10% Deformation	ASTM D1621	kPa (psi)	70 (10)	110 (16)	170 (25)
<b>Flexural Strength</b> Minimum	ASTM C203	kPa (psi)	170 (25)	240 (35)	300 (44)
<b>Water Vapour Permeance<sup>3</sup></b> Maximum	ASTM E96	ng/(Pa·s·m <sup>2</sup> ) (Perms)	300 (5.2)	200 (3.5)	130 (2.25)
<b>Water Absorption<sup>4</sup></b> Maximum	ASTM D2842	% By volume	6.0	4.0	2.0
<b>Dimensional Stability</b> Maximum, 7 Days @ 70 ± 2 °C (158 ± 4 °F)	ASTM D2126	% Linear Change	1.5	1.5	1.5
<b>Limiting Oxygen Index</b> Minimum	ASTM D2863	%	24	24	24
<b>Surface Burning Characteristics</b> Classification or Rating	CAN/ULC S102.2	Flame Spread Smoke Developed	290 Over 500		

### Sustainability

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

1. Material properties are third party certified to CAN/ULC-S701, **Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering**, under a quality listing program administered by Intertek and are listed by the Canadian Construction Materials Centre (CCMC) under evaluation listing numbers 12424-L (Type 1), 12425-L (Type 2) and 12426-L (Type 3).
2. Compressive resistance of **PlastiSpan 25** insulation exceeds the minimum requirement for Type 3.
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.
4. 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.