

## Product Information Bulletin

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

**PlastiSpan®**, **PlastiSpan HD** and **PlastiSpan 25** insulation are rigid, closed-cell expanded polystyrene (EPS) insulations that meet or exceed material property requirements of CAN/ULC-S701.1 (formerly CAN/ULC-S701). The table below provides material properties for **PlastiSpan** (Type 1), **PlastiSpan HD** (Type 2) and **PlastiSpan 25** (Type 3) insulation.

Material Properties <sup>1</sup>	Units	Type 1	Type 2	Type 3
<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)	0.65 (3.75)	0.70 (4.04)	0.74 (4.27)
<b>Compressive Resistance</b> <i>Minimum @ 10% Strain</i> ASTM D1621	kPa (psi)	70 (10)	110 (16)	170 (25)
<b>Flexural Strength</b> <i>Minimum</i> ASTM C203	kPa (psi)	170 (25)	240 (35)	300 (44)
<b>Water Vapour Permeance</b> <sup>2</sup> <i>Maximum</i> ASTM E96	ng/(Pa·s·m <sup>2</sup> ) (Perms)	300 (5.2)	200 (3.5)	130 (2.25)
<b>Water Absorption</b> <sup>3</sup> <i>Maximum</i> ASTM D2842	% By volume	6.0	4.0	2.0
<b>Dimensional Stability</b> <i>Maximum</i> ASTM D2126	% Linear Change	1.5	1.5	1.5
<b>Limiting Oxygen Index</b> <i>Minimum</i> ASTM D2863	%	24	24	24
<b>Flame Spread Rating</b> CAN/ULC S102.2	NA	290		
<b>Smoke Developed Classification</b> CAN/ULC S102.2	NA	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. The **GREENGUARD Gold Certification** mark gives assurance that insulation designed for use in indoor spaces meets strict chemical emissions limits, which contribute to the creation of healthier interiors (see Plasti-Fab PIB 266 for additional information).

<sup>1</sup> Material properties are third party certified to CAN/ULC-S701.1, **Standard for Thermal Insulation, Polystyrene Boards**, under an Intertek third party certification program. See Intertek Code Compliance Research Report CCRR-1072 for additional information.

<sup>2</sup> WVP values quoted are maximum values for 25-mm (1-inch) thick samples with natural skins intact. Lower values will result for thicker materials.

<sup>3</sup> 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.