

Product Information Bulletin 214

**PlastiSpan, PlastiSpan
HD & PlastiSpan 25
Insulation Material
Properties
CAN/ULC-S701,
Types 1, 2 and 3**

Product Information Bulletin

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

PlastiSpan[®] insulation is a rigid, closed-cell expanded polystyrene (EPS) insulation that meets or exceeds 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 ¹	Units	Type 1	Type 2	Type 3
Thermal Resistance <i>Minimum per 25 mm (1 inch)</i> ASTM C518	m ² ·°C/W (ft ² ·h·°F/BTU)	0.65 (3.75)	0.70 (4.04)	0.74 (4.27)
Compressive Resistance <i>Minimum @ 10% Strain</i> ASTM D1621	kPa (psi)	70 (10)	110 (16)	170 (25)
Flexural Strength <i>Minimum</i> ASTM C203	kPa (psi)	170 (25)	240 (35)	300 (44)
Water Vapour Permeance² <i>Maximum</i> ASTM E96	ng/(Pa·s·m ²) (Perms)	300 (5.2)	200 (3.5)	130 (2.25)
Water Absorption³ <i>Maximum</i> ASTM D2842	% By volume	6.0	4.0	2.0
Dimensional Stability <i>Maximum</i> ASTM D2126	% Linear Change	1.5	1.5	1.5
Limiting Oxygen Index <i>Minimum</i> ASTM D2863	%	24	24	24
Surface Burning Characteristics <i>Rating or Classification</i> CAN/ULC S102.2	Flame Spread	290		
	Smoke Developed	Over 500		
CCMC Evaluation	Listing Number	12424-L	12425-L	12426-L

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 (see Plasti-Fab PIB 266).

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

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 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.