

Product Information Bulletin

PlastiSpan® Insulation - CAN/ULC-S701.1, Type 1 Material Properties

PlastiSpan® insulation is a rigid, closed-cell expanded polystyrene (EPS) insulation that meets or exceeds material property requirements for CAN/ULC-S701.1 (formerly CAN/ULC-S701), Type 1. The table below provides material properties for **PlastiSpan** insulation.

| Material Properties ¹ | Units | Values |
|---|---|----------------|
| 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) |
| Compressive Resistance <i>Minimum @ 10% Strain</i> ASTM D1621 | kPa (psi) | 70 (10) |
| Flexural Strength <i>Minimum</i> ASTM C203 | kPa (psi) | 170 (25) |
| Water Vapour Permeance ² <i>Maximum</i> ASTM E96 | ng/(Pa•s•m ²) (Perms) | 300 (5.2) |
| Water Absorption ³ <i>Maximum</i> ASTM D2842 | % By volume | 6.0 |
| Dimensional Stability <i>Maximum</i> ASTM D2126 | % Linear Change | 1.5 |
| Limiting Oxygen Index <i>Minimum</i> ASTM D2863 | % | 24 |
| Flame Spread Rating CAN/ULC S102.2 | NA | 290 |
| Smoke Developed Classification CAN/ULC S102.2 | NA | Over 500 |

Sustainability

As part of its commitment to ongoing sustainability initiatives, Plasti-Fab maintains **GREENGUARD Gold Certification** for **PlastiSpan** insulation with UL Environment, an independent global safety science organization. The **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 for additional information).

¹. **PlastiSpan** insulation 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) and is listed by the Canadian Construction Materials Centre (CCMC) under evaluation listing number 12424-L (Type 1).

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.