

Product Information Bulletin

PlastiSpan® HD Insulation - CAN/ULC-S701, Type 2 Material Properties

PlastiSpan® HD insulation is a rigid, closed-cell insulation that meets requirements for expanded polystyrene (EPS) insulation manufactured to CAN/ULC-S701, Type 2. The table below provides material properties for **PlastiSpan HD** 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) | 0.70 (4.04) |
| Compressive Resistance <i>Minimum @ 10% Strain</i> ASTM D1621 | kPa (psi) | 110 (16) |
| Flexural Strength <i>Minimum</i> ASTM C203 | kPa (psi) | 240 (35) |
| Water Vapour Permeance² <i>Maximum</i> ASTM E96 | ng/(Pa•s•m ²) (Perms) | 200 (3.5) |
| Water Absorption³ <i>Maximum</i> ASTM D2842 | % By Volume | 4.0 |
| Dimensional Stability <i>Maximum</i> ASTM D2126 | % Linear Change | 1.5 |
| Limiting Oxygen Index <i>Minimum</i> ASTM D2863 | % Volume | 24 |
| Surface Burning Characteristics <i>Rating or Classification</i> CAN/ULC S102.2 | Flame Spread | 220 |
| | Smoke Developed | Over 500 |

Sustainability

As part of its commitment to ongoing sustainability initiatives, Plasti-Fab maintains **GREENGUARD Gold Certification** for **PlastiSpan HD** insulation with UL Environment, an independent global safety science organization. The **GREENGUARD Gold Certification** mark on **PlastiSpan HD** 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. **PlastiSpan HD** insulation properties are third party certified to CAN/ULC-S701, **Standard for Thermal Insulation, Polystyrene, Boards, and Pipe Covering**, under a third party certification program (see Intertek Code Compliance Research Report CRR-1072 for additional information) and is listed by the Canadian Construction Materials Centre (CCMC) under evaluation listing number 12425-L (Type 2).

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.