

Product Information Bulletin

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EnerSpan® 30 Insulation Board

EnerSpan® 30 insulation is a rigid, closed cell, silver-gray insulation that meets or exceeds requirements for expanded polystyrene (EPS) insulation manufactured to CAN/ULC-S701, **Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering**. **EnerSpan 30** insulation is manufactured using **Neopor® F5300 GPS Plus**, a graphite-enhanced expandable polystyrene (GPS) raw material provided by BASF.

The graphite within the silver-gray cellular structure of **EnerSpan 30** insulation reduces radiation heat transfer and results in an enhanced thermal resistance compared to standard white EPS insulation manufactured to CAN/ULC-S701.

Material Properties	Units	CAN/ULC-S701 Type 3
Thermal Resistance ¹ <i>Minimum per 25 mm (inch)</i> ASTM C518	m ² •°C/W (ft ² •h•°F/BTU)	0.82 (4.7)
Compressive Resistance <i>Minimum @ 10% Deformation</i> ASTM D1621	kPa (psi)	210 (30)
Flexural Strength <i>Minimum</i> ASTM C203	kPa (psi)	345 (50)
Water Vapour Permeance ² <i>Maximum</i> ASTM E96	ng/(Pa•s•m ²) (Perms)	130 (2.25)
Water Absorption ³ <i>Maximum</i> ASTM D2842	% By volume	2.0
Dimensional Stability <i>Maximum, 7 Days @ 70 ± 2 °C (158 ± 4 °F)</i> ASTM D2126	% Linear Change	1.5
Limiting Oxygen Index <i>Minimum</i> ASTM D2863	%	24
Surface Burning Characteristics <i>Rating or Classification</i> CAN/ULC S102.2	Flame Spread Rating	220
	Smoke Developed Classification	Over 500

- EnerSpan 30** insulation thermal resistance values in the table above exceed minimum requirements for EPS insulation manufactured to CAN/ULC-S701.
- WVP values quoted are maximum values for 25-mm (1-inch) thick samples with natural skins intact. Lower values will result for thicker materials.
- ASTM D2842 is a laboratory test method that requires complete submersion of test specimens 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 the laboratory test requirements.