

Product Information Bulletin

EnerSpan® 20 Insulation Board

EnerSpan® 20 insulation is a rigid, closed cell, silver-gray insulation with material properties that exceed requirements for expanded polystyrene (EPS) insulation manufactured to CAN/ULC-S701¹, Type 2 and ASTM C578², Type II. **EnerSpan 20** insulation is manufactured using **Neopor® F5300 Plus**, a graphite-enhanced expandable polystyrene (GPS) resin, provided by BASF.

The graphite within the silver-gray cellular structure of **EnerSpan 20** insulation reduces radiation heat transfer and results in an enhanced thermal resistance compared to standard white EPS insulation. **EnerSpan 20** insulation meets requirements for use as a component in BASF Corporation – Wall Systems: **Senerflex Platinum CI**, **Pebbletex Platinum CI** and **Acrotex Platinum CI** EIFS.

Material Property	Test Method	Units	Values
Compressive Resistance <i>Minimum @ 10% strain</i>	ASTM D1621	kPa (psi)	140 (20)
Thermal Resistance ³ <i>Minimum per 25 mm (1 inch) thickness</i>	ASTM C518	m ² ·°C/W (ft ² ·h·°F/BTU)	RSI-0.82 (R-4.7)
Flexural Strength <i>Minimum</i>	ASTM C203	kPa (psi)	276 (40)
Water Vapour Permeance <i>Maximum</i>	ASTM E96	ng/(Pa·s·m ²) (Perms)	200 (3.5)
Water Absorption ⁴ <i>Maximum</i>	ASTM D2842	% By volume	4.0
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>Index (US)</i>	ASTM E84	Flame Spread	5
		Smoke Developed	25
Surface Burning Characteristics <i>Classification or Rating (CAN)</i>	CAN/ULC-S102.2	Flame Spread	220
		Smoke Developed	over 500

1. CAN/ULC-S701, **Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.**

2. ASTM C578, **Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.**

3. **EnerSpan 20** insulation thermal resistance values in the table above exceed minimum requirements for EPS insulation manufactured to CAN/ULC-S701, Type 2 and ASTM C578, Type II.

4. The water absorption laboratory test method involves complete submersion under a head of water for 96 hours. The water absorption value above is applicable to specific end-use design requirements only to the extent that the end-use conditions are similar to test method requirements.