

Neopor® Plus GPS Insulation for Precast Concrete Products

Overview:

For over 20 years Neopor Graphite Polystyrene has been providing architects, engineers and designers with thinner insulation profiles that meet and exceed the performance of other foam insulation products. The Neopor Plus GPS delivers the highest R-value in the Neopor GPS product family. Neopor Plus GPS is manufactured under UL and International Code Council third party independent audit and certification. With its high stable R-value and low water absorption characteristics, Neopor Plus GPS is an ideal insulation material for precast concrete panels.

Why consider Neopor® over XPS for Precast Concrete Products?

- **Availability:** Neopor Plus GPS is available nationwide through the authorized BASF Neopor supplier network.
- **Stable R-value:** Neopor doesn't rely on captive gases to boost its R-value. In Canada, that means no LTTR concerns.
- **Savings:** Per nominal inch, Neopor can deliver the same R-value as XPS using up to 30% less raw material.
- **Flexibility:** Neopor insulation boards can be made into custom sizes and dimensions up to 40 inches in thickness at varying slopes.
- **Precast Ready:** Neopor board surface is ready for precast bond. No additional preparation required.
- **Performance:** Neopor Plus GPS delivers high R-value and low water absorption delivering best in class insulating performance.



NEOPOR® PLUS GPS TECHNICAL PROPERTIES

Neopor Plus GPS rigid foam is today's energy-efficient and cost-effective insulation solution for architects, builders and contractors.

Property	Unit	Neopor Plus GPS		
Polystyrene type		GPS+	GPS+	GPS+
CAN ULC S701 Classification ¹		Type 1	Type 2	Type 3
Compressive Resistance (ASTM D1621)	at yield of 10% deformation in kPa / psi (min)	70 / 10	110 / 16	140 / 20
Thermal Resistance (R-value) ²	(°C·m ² /W) at 23°C for 25 mm / (F ² ·ft ² ·h/Btu) at 75°F for 1 inch	0.83 / 4.7	0.83 / 4.7	0.83 / 4.7
Water Vapor Permeance ³ (ASTM E96)	Max (ng/Pa·s·m ²) / Perms	300 / 5.0	200 / 3.3	130 / 2.2
Water Absorption ³ (ASTM D2842)	Max volume % absorbed	6.0 ³	4.0 ³	2.0 ³
Flexural Strength (ASTM C203)	kPa / psi (min)	170 / 24	240 / 35	300 / 44
Flame Spread Index (CAN/ULC S102.2)	Max	230	230	230
Limiting Oxygen Index (ASTM D2863)	Min	24	24	24

¹ QAI Listing, B1055-2

² R means resistance to heat flow. The higher the R-value, the greater the insulating power. Ask your seller for the fact sheet on R-values.

³ Max values per ULC S701 standard. Product properties may be lower.

Please note:

The technical and physical metrics provided in this table are reference values for insulation products made of Neopor GPS. The values and properties may vary depending on how they are processed and produced.

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