

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?

- **Flexibility:** Neopor insulation boards can be made up to 24 feet in length and 40 inches in thickness at varying slopes.
- **Savings:** Per nominal inch, Neopor can deliver the same R-value as XPS using up to 30% less raw material.
- **Precast Ready:** Neopor board surface is ready for precast bond. No additional preparation required.
- **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.
- **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				
ASTM C578 Classification		Type I	Type VIII	Type II	Type II+	Type IX
Compressive Resistance	at yield of 10% deformation in psi (min)	10.0	14.0	15.0	20.0	25.0
Thermal Resistance (R-value)	°F · ft ² · h/BTU (°C · m ² /W) at 75°F	4.7	4.7	4.7	4.7	4.7
	°F · ft ² · h/BTU (°C · m ² /W) at 40°F	5.0	5.0	5.0	5.0	5.0
Water Vapor Permeance	Max perm (ng/Pa · s · m ²)	4.0	3.1	3.1	3.1	2.5
Water Absorption by Total Immersion	Max volume % absorbed	1.1	1.1	1.1	1.1	1.1
Flexural Strength	psi	25.0	32.0	39.0	40.0	50.0
Density	lbs/ ft ³ (min)	0.90	1.15	1.35	1.45	1.80
Flame Spread	Index	5				
Smoke Development	Index	25				

Please note:

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

The technical and physical metrics provided in this table are reference values for insulation products made of Neopor Plus GPS.

The values and properties may vary depending on how they are processed and produced. The R-value properties are based on 1 in thickness.

Water absorption rates typical when tested according to C272.

Important Note:

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