

Neopor® GPS Smart Insulation ASTM C578 & ASTM E84



Neopor® GPS (Graphite Polystyrene) rigid insulation is today’s energy-efficient and cost-effective insulation solution for architects, builders and contractors. The table shows data of Neopor® GPS F5300 Plus at 1 - 1/16”

Property	Unit	Neopor® GPS Plus ³⁾				
ASTM C578 Classification ¹⁾		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) ²⁾	°F·ft ² ·h/BTU (°C·m ² /W) at 75°F	5.0	5.0	5.0	5.0	5.0
	°F·ft ² ·h/BTU (°C·m ² /W) at 40°F	5.2	5.2	5.2	5.3	5.3
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 (min)	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				

- 1) Neopor® GPS meets and exceeds ASTM C578-13, “Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation”; published by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959.
- 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) 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. The R-value properties are based on 1-1/16 in thickness.

Neopor® GPS Smart Insulation

ASTM C578 & ASTM E84



Neopor® GPS (Graphite Polystyrene) rigid insulation is today's energy-efficient and cost-effective insulation solution for architects, builders and contractors. The table shows actual test data of Neopor® GPS F5300 Plus at 1"

Property	Unit	Neopor® GPS Plus			
		GPS +	GPS +	GPS +	GPS +
Polystyrene type		GPS +	GPS +	GPS +	GPS +
ASTM C578 Classification ¹⁾		Type I	Type VIII	Type II	Type IX
Compressive Resistance	at yield of 10% deformation in psi (min)	10.0	14.0	20.0	25.0
Thermal Resistance (R-value)	°F·ft ² ·h/BTU (°C·m ² /W) 75 ±2°F (23.9 ±1°C) / 1"	4.7	4.7	4.7	4.7
Thermal Resistance (R-value) ³⁾	°F·ft ² ·h/BTU (°C·m ² /W) 40°F ±2°F (23.9 ±1°C) / 1"	5.0	5.0	5.0	5.0
Water Vapor Permeance	Max perm (ng/Pa·s·m ²)	4.0	3.1	3.1	2.5
Water Absorption by Total Immersion	Max volume % absorbed	1.1	1.1	1.1	1.1
Flexural Strength	psi	25.0	32.0	40.0	50.0
Density	lbs/ ft ³ (min)	0.90	1.15	1.45	1.80

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Neopor® GPS Smart Insulation

CAN ULC S701



Neopor® GPS (Graphite Polystyrene) rigid insulation is today's energy-efficient and cost-effective insulation solution for architects, builders and contractors. The table shows actual test data of Neopor® GPS F5300 Plus at 1"

Property	Unit	Neopor® GPS Plus		
		GPS +	GPS +	GPS +
Polystyrene type		GPS +	GPS +	GPS +
CAN ULC S701 Classification ¹⁾		Type I	Type II	Type III
Compressive Resistance	at yield of 10% deformation in psi (min)	10.0	20.0	25.0
Thermal Resistance (R-value)	°F·ft ² ·h/BTU (°C·m ² /W) 75 ±2°F (23.9 ±1°C) / 1"	4.7	4.7	4.7
Thermal Resistance (R-value) ³⁾	°F·ft ² ·h/BTU (°C·m ² /W) 40°F ±2°F (23.9 ±1°C) / 1"	5.0	5.0	5.0
Water Vapor Permeance	Max perm (ng/Pa·s·m ²)	4.0	3.1	2.5
Water Absorption by Total Immersion	Max volume % absorbed	TBD	3.8	3.8
Flexural Strength	psi	25.0	40.0	50.0
Density	lbs/ ft ³ (min)	0.90	1.45	1.80

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