

# Neopor® GPS Smart Insulation



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.

Property	Unit	Neopor® GPS Plus <sup>3)</sup>				
ASTM C578 Classification <sup>1)</sup>		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) <sup>2)</sup>	°F·ft <sup>2</sup> ·h/BTU (°C·m <sup>2</sup> /W) at 75°F	4.7	4.7	4.7	4.7	4.7
	°F·ft <sup>2</sup> ·h/BTU (°C·m <sup>2</sup> /W) at 40°F	5.0	5.0	5.0	5.0	5.0
Water Vapor Permeance	Max perm (ng/Pa·s·m <sup>2</sup> )	4.0	3.1	3.1	3.1	2.5
Water Absorption by Total Immersion	Tested 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 <sup>3</sup> (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 in thickness.