



# CREATIVE FOAM

## GRAPHITE POLYSTYRENE

**Creative Foam Graphite Polystyrene (GPS) is a closed-cell, lightweight rigid foam material used in a numerous applications, including insulating sheathing, roofing insulation, etc. We custom manufacture GPS in a variety of thicknesses, lengths, widths, and shapes and meet or exceed the testing and performance criteria of ASTM C578, Standard Specification for Rigid Cellular Polystyrene Thermal Insulation. GPS beads are infused with graphite which provides a higher thermal performance than standard EPS on par with Extruded Polystyrene (XPS).**

Property	Unit	GPS*				
		Type I	Type VII	Type II	Type II+	Type IX
<b>ATSM C578 Classification</b>						
<b>Compressive Resistance</b>	at yield of 10% deformation in psi (min)	10.0	14.0	15.0	20.0	25.0
<b>Thermal Resistance (R-Value)</b>	°F·ft²·h/BTU (°C·m²/W) @75°F	5.0	5.0	5.0	5.0	5.0
	°F·ft²·h/TBU (°C·m²/W) @40°F	5.2	5.2	5.2	5.3	5.3
<b>Water Vapor Permeance</b>	Max perm (ng/Pa·s·m²)	4.0	3.1	3.1	3.1	2.5
<b>Water Absorption by Total Immersion</b>	Max volume % absorbed	1.1	1.1	1.1	1.1	1.1
<b>Flexural Strength</b>	psi (min)	25.0	32.0	39.0	40.0	50.0
<b>Density</b>	lbs./ft³ (min)	0.90	1.15	1.35	1.45	1.80
<b>Flame Spread</b>	Index	5				
<b>Smoke Development</b>	Index	25				



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