

Molded Polystyrene Insulation.

PowerFoam R-Control molded polystyrene insulation is a cost effective, durable, and energy efficient solution for all types of insulation applications. PowerFoam R-Control Insulation is an insulation manufactured to provide architects, specifiers, distributors, and contractors all the features and benefits inherent in a quality insulation.

R-value – PowerFoam R-Control 50 has an R-value that never changes over time.

Strength – PowerFoam R-Control 50 has a compressive strength of 5 psi.

Moisture Resistance – PowerFoam R-Control 50 is a closed cell polystyrene insulation and is resistant to moisture gain.

Vapor Permeable – PowerFoam R-Control 50 allows moisture vapor to move through its structure.

Drying Potential – PowerFoam R-Control 50 rapidly releases absorbed moisture.

Applications.

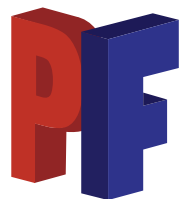
- Precast Concrete Core
- Void Fill
- Flotation
- Protective Packaging

Proven to meet, or exceed, building codes.

PowerFoam R-Control insulation is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40338-01.



PowerFoam R-Control insulation meets Type XI of ASTM C578, “Standard Specification for Rigid, Cellular Polystyrene Insulation”.



www.powerfoam.com

POWERFOAM R-CONTROL		50	
Compressive Strength ^{1,2} @ 10% deformation, min. ASTM D1621		psi (kPa)	5 (35)
R-value ¹ , Powerl Resistance, per inch, ASTM C518	25°F	°F·ft ² ·h/Btu (°K·m ² /W)	3.6 (0.63)
	40°F	°F·ft ² ·h/Btu (°K·m ² /W)	3.4 (0.60)
	75°F	°F·ft ² ·h/Btu (°K·m ² /W)	3.2 (0.56)
k-value Powerl Conductivity ASTM C518	25°F	Btu·in/°F·ft ² ·h (W/°K·m)	0.28 (0.040)
	40°F	Btu·in/°F·ft ² ·h (W/°K·m)	0.29 (0.042)
	75°F	Btu·in/°F·ft ² ·h (W/°K·m)	0.31 (0.045)
Density, min., ASTM C303		lb/ft ³ (kg/m ³)	0.70 (12)
Flexural Strength ¹ , min. ASTM C203		psi (kPa)	10 (69)
Water Vapor Permeance ¹ of 1.0 in. thickness, max., perm ASTM E96			5.0
Water Absorption ³ , volume % ASTM C272			0.3
Flame Spread Index ASTM E84			<25
Smoke Developed Index ASTM E84			<450
Maximum long-term use temperature			165°F (74°C)
ASTM C578 Compliance, Type			XI

¹ Please refer to ASTM C578 specification for complete information.

² Compressive strength is measured at 10 percent in accordance with ASTM C578. A safety factor is required to prevent long-term creep for sustained loads. For static loads, a safety factor of 3:1 is recommended.

³ ASTM C272 24 hour immersion followed by 24 hour storage in 75°F/50%RH air.