

150 sales@thermafoam.com

Film-Faced Molded Polystyrene Insulation.

ThermaFoam R-Control ThermaShield is a film-faced air barrier and weather resistive insulation used for all types of construction applications. Typical applications for ThermaFoam R-Control ThermaShield 100 include commercial roofing, exterior sheathing, building perimeters, under concrete slabs, garage doors, coolers and freezers, industrial piping and tanks, and protective packaging.

Proven to meet, or exceed, building codes.

ThermaFoam R-Control ThermaShield is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40338-01. ThermaFoam R-Control ThermaShield complies with Building Code requirements for:



- ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation
- ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- ASTM E2178, Standard Test Method for Air Permeance of Building Materials.

Advantages.

- Film-faced for toughness
- Air Barrier
- Weather Resistive Barrier
- Superior moisture resistance
- Low water vapor permeability
- No CFC, HCFC, HFC, or formaldehyde
- No long-term R-value loss or thermal drift.

Stands up to the weather.

When tested in accordance with ASTM C1512, "Standard Test Method for Characterizing the Effect of Exposure to Environmental Cycling on Thermal Performance of Insulation Products," EPS maintains its R-value and strength after severe exposure to freeze-thaw cycles.



THERMAFOAM THERMASHIELD 150			
Compressive Strength ^{1,2} @ 10% deformation, min. ASTM D1621		psi (kPa)	15 (104)
R-value ¹ , Thermal Resistance, per inch, ASTM C518	25°F	°F·ft²·h/Btu (°K·m²/W)	4.8 (0.84)
	40°F	°F·ft²·h/Btu (°K·m²/W)	4.6 (0.81)
	75°F	°F·ft²·h/Btu (°K·m²/W)	4.2 (0.74)
k-value Thermal Conductivity ASTM C518	25°F	Btu·in/ºF·ft²·h (W/ºK·m)	0.21 (0.030)
	40°F	Btu·in/ºF·ft²·h (W/ºK·m)	0.22 (0.032)
	75°F	Btu·in/ºF·ft²·h (W/ºK·m)	0.24 (0.035)
Density, min., ASTM C303		lb/ft³ (kg/m³)	1.35 (22)
Flexural Strength ¹ , min. ASTM C203		psi (kPa)	35 (242)
Water Vapor Permeance ¹ of 1.0 in. thickness, max., perm ASTM E96			0.3
Water Absorption¹ by total immersion, max., volume % ASTM C272			<1.0
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			II

- 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 longterm creep for sustained loads. For static loads, a safety factor of 3:1 is recommended.

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