

Type VIII Technical Data

Benchmark Foam EPS (expanded polystyrene) is a cost-effective, durable and energy efficient solution for all types of insulation applications. Type VIII Benchmark Foam EPS can be used in several applications, including bridge embankments, commercial and residential insulation, and under concrete slabs and so much more.

Benchmark Foam adheres to the strictest industry standards, including ASTM C578, "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation." If industry standards are not good enough, we create our own - enabling us to exceed typical expectations.

Flammability

Like many construction materials, expanded polystyrene (EPS) is combustible. It should not be exposed to flame or other ignition sources. Current building code requirements should be met for adequate protection or separation from occupied areas.

Solvent Exposure

EPS is subject to attack by petroleum-based solvents and adhesives, and coal tar pitch products. Care should be taken to prevent EPS direct contact with these products and their vapors. Use only adhesives approved for EPS applications.

For more information,
call 800-658-3444 or
visit www.BenchmarkFoam.com

In 1988, we named our company Benchmark Foam because we believed our teamwork, quality and service would be the standard by which other companies in our industry should be measured. We are serious about our customers, our products and our promises, and we diligently strive to surpass our own standards every day

Quick Response is our guarantee.

Detailed Properties of Type VIII EPS

The following table outlines the complete physical properties of our Type VIII EPS and provides the definitive data you need for your specifications and designs.

Benchmark Foam EPS Properties			
Nominal Density ASTM C303		lb/ft ³	1.15
Density, min. ASTM C303		lb/ft ³	1.15
R-Value ¹ Thermal Resistance per 1.0 in thickness ASTM C518	25°F	°F.ft ² .h/Btu	4.54
	40°F	°F.ft ² .h/Btu	4.25
	75°F	°F.ft ² .h/Btu	3.92
k-Value ¹ Thermal Conductivity ASTM C518	25°F	Btu.in/ °F.ft ² .h	.0227
	40°F	Btu.in/ °F.ft ² .h	0.238
	75°F	Btu.in/ °F.ft ² .h	0.263
Compressive Strength @ 10% deformation, min. ASTM D1621		psi	13.0
Flexural Strength, min. ASTM C203, Procedure B		psi	30
Water Vapor Permeance of 1.0 in. thickness, max., perm ASTM E96			3.5
Water Absorption by total immersion, max., volume % ASTM C272			3.0
Oxygen Index, min., volume % ASTM D2863			24
Maximum recommended long-term exposure temperature			167°F
Flame Spread ASTM E84			<20
Smoke Development ASTM E84			300