

TRI STATE FOAM

Expanded Polystyrene Technical Data

Tri State Foam Products, Inc. is a manufacturer of Expanded Polystyrene (EPS) Insulation. Tri State EPS is a closed cell, lightweight, resilient, foamed plastic molded in a range of densities and sizes to meet your application/specification requirements.

Tri State insulation provides long-term thermal performance characteristics with permanent R-value, inherent water resistance, excellent comprehensive strength, and dimensional stability.

Tri State EPS Insulation Advantages:

- Low material and installation costs
- Manufactured in various densities
- Available in a wide range of sizes
- Easily handled and applied
- Simple to cut and ship
- Permanent R-value
- Non-irritating to skin
- Restricts moisture penetration

Tri State EPS Insulation Characteristics:

- High strength-to-weight ratio
- Low thermal conductivity
- Reflective white color
- Non-dusting
- Unaffected by vibrations
- Does not rot, mildew, or support bacterial growth

Tri State insulation provides a high R-value at a comparatively low cost and is a popular choice for:

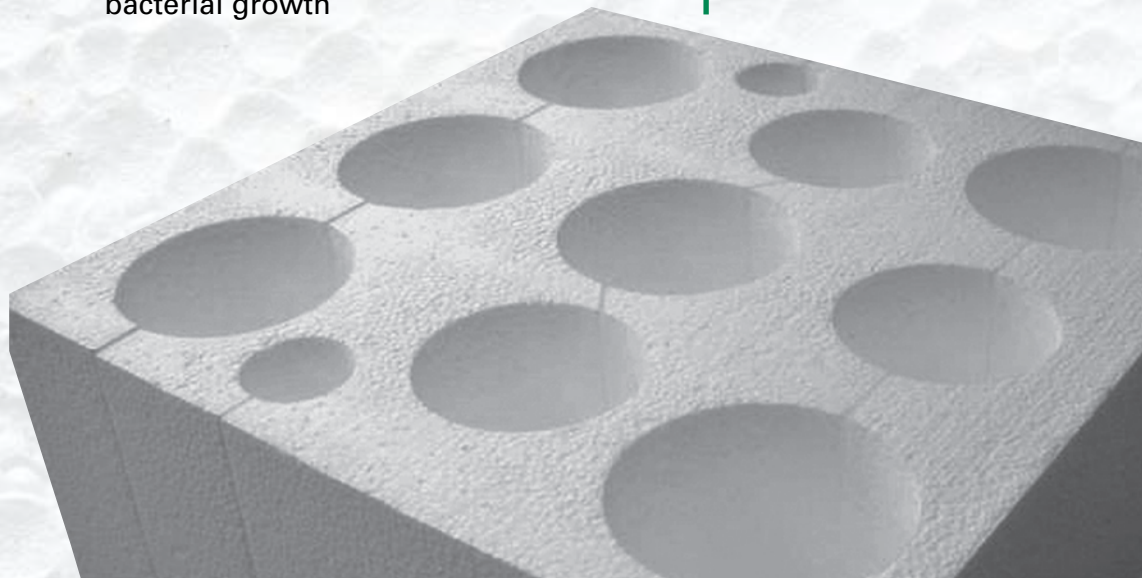
- Roof insulation
- Cavity wall insulation
- Exterior insulation systems
- Perimeter insulation
- Nonstructural sheathing
- Masonry fill insulation

*Quality in all
Dimensions*

Products Engineered
for Today's
Construction Industry

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Typical Physical Properties of Tri State EPS Insulation:

Specification Reference: ASTM C 578			Type 1	Type VIII	Type II	Type IX
Property	Units	ASTM Test				
Density, minimum	(pcf)	D303 or D1622	0.90	1.15	1.35	1.80
Thermal Resistance	at 25F	at 1 inch	4.20	4.40	4.60	4.80
R-value*	at 40F	thickness	4.00	4.20	4.40	4.60
	at 75F		3.60	3.80	4.00	4.20
Strength Properties						
Compressive 10% Deformation	psi	D1621	10	13	15	25
Flexural	psi	C203	25	30	40	50
Tensile	psi	D1623	16	17	18	23
Shear	psi	D723	18	23	26	33
Shear Modules	psi	~	280	370	460	600
Modules Elasticity	psi	~	180	250	320	460
Moisture Resistance						
WVT	perm.in	E96	5.0	3.5	3.5	2.0
Absorption (vol.)	%	C272	less than 4.0	less than 3.0	less than 3.0	less than 2.0
Maximum Service Temperature	°F	~				
Long-term exposure			167	167	167	167
Intermittent exposure			180	180	180	180
Oxygen Index	%	D2863	24.0	24.0	24.0	24.0
Dimensional Stability	% Change	D2126	2.0	2.0	2.0	2.0

*R-value means the resistance to heat flow. The higher the R-value, the greater the resistance to heat flow.

Code Compliance: Tri State EPS is manufactured under RADCO third-party inspection service, quality assurance, and label services required by the model building codes listed below and must be installed in accordance with applicable local code requirements: BOCA (SECTION 2603,) SBCCI (SECTION 2603), CBO (SECTION 2602)

and is manufactured to meet the following specifications:

ASTM	C-578
MILITARY SPEC.	MILP-19644C
MILITARY SPEC.	MILP-40619A

Warning! EPS Foam Is Flammable

EPS products are manufactured with a fire retardant; however, EPS insulation will burn upon exposure to an adequate source of heat or flame. EPS should be kept away from flame or heat sources, including, but not limited to, open flames, welder's torches, or other sources of heat. Once ignited, EPS will burn with intense heat and smoke. It is the responsibility of the purchaser to warn all those who may be in contact with EPS insulation about the need to adhere to these requirements when the product is stored on the jobsite. EPS insulation should not be used in exposed applications.

Expanded polystyrene has a variety of uses, such as:

Roofing Insulation	Perimeter Insulation	Masonry Fill
Cavity Wall Insulation	Exterior Finish Insulation	Protective Packaging
Exterior Sheathing	Architectural Shapes	Flotation
Cold Storage Insulation	Insulated Concrete Forms	GeoFoam

At Tri State Foam, we are dedicated to providing a quality product and dependable service. We are eager to assist you in any way possible.

We present the information in this bulletin in good faith and believe it to be accurate; however, all statements and suggestions are made without warranty, expressed or implied.