



# STYROFOAM PLAZAMATE

## STYROFOAM\* PLAZAMATE\* brand roofing insulation

- Extruded polystyrene insulation for installation above waterproofing membranes in plaza deck applications
- Suitable for use in plazas with either pedestrian or vehicular walkways
- Long-term R-value
- Superior moisture resistance
- Outstanding cost-performance
- Durable, reusable — the only roof insulation you should ever need

### Physical Properties

Property (units)	ASTM Method	STYROFOAM PLAZAMATE Brand Insulation
Thermal Resistance <sup>(1)</sup> , Aged R-Value/inch @ 75°F mean temp.	C 518	5.0
Compressive Strength, <sup>(2)</sup> lb/in <sup>2</sup>	D 1621	60 (min.)
Flexural Strength, lb/in. <sup>2</sup> , min.	C 203	75
Water Absorption, % by volume, max.	C 272	0.1
Water Vapor Permeance (perm) <sup>(3)</sup>	E 96	0.8
Dimensional Stability, % linear change, max.	D 2126	2.0
Coefficient of Linear Thermal Expansion, in./in., °F		3.5 x 10 <sup>-5</sup>
Complies with ASTM C 578-95, Type		VII
Maximum Use Temperature, °F		165
Flame Spread <sup>4</sup>	E 84	15
Smoke Development	E 84	165

### Standard Product Sizes for STYROFOAM PLAZAMATE Brand Insulation<sup>5</sup>

Width (ft)	Length (ft)	Thickness (in.)
2	8	1½, 2, 3

<sup>1</sup> Values are consistent with criteria of ASTM C 578 and requirements of FTC R-value rule (16 CFR Part 460).

<sup>2</sup> Vertical compressive strength measured at 5 percent deformation or at yield, whichever occurs first. Adequate design safety factors should be used to prevent long-term creep: 3-1 for static loads and 5-1 for dynamic loads are suggested.

<sup>3</sup> Values decrease with increasing product thickness. Value based on desiccant method and applies to 1-inch thick insulation.

<sup>4</sup> This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

<sup>5</sup> Not all products are available in all parts of the country. Other product sizes are available on a made-to-order basis.

Please contact your Dow sales representative with questions.

**Specification Details:**

**2. Products**

**2.1** Roof Insulation \_\_\_\_\_ inch thick STYROFOAM PLAZAMATE brand insulation

**2.2.** Rigid, extruded polystyrene board insulation meeting ASTM C578 Type VII

**2.2.1.** Compressive Strength: 60 psi minimum (ASTM D1621)

**2.2.2.** Water Absorption: 0.1% by volume max. (ASTM C272)

**2.2.3.** Foam Blowing Agent: Shall provide at least a 90% reduction in ozone depletion potential as compared with standard CFC blowing agents and shall be certified by foam manufacturer.

**2.2.4.** R-value: 5.0 per inch, min. at 75° F mean temp (ASTM C518) and warranted by manufacturer to retain at least 90% of its published R-value for 15 years.

**2.2.5.** Compliance: Submit insulation manufacturer's literature showing compliance with this specification, including ozone depletion potential and a limited warranty certificate.

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**COMBUSTIBLE:** Protect from flame and other high heat sources. For more information, consult MSDS and/or call Dow (1-800-441-4369). In an emergency, call (1-517-636-4400). Local building codes may require a protective or thermal barrier. Contact your local building inspector for more information.

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**For Technical Information:  
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