TRYMER® 3000 POLYISOCYANURATE FOAM

Insulation | ASTM C591 Grade 2, Type III | Closed-Cell PIR

Polyurethane-modified polyisocyanurate cellular material supplied as bunstock for fabrication into sheets, pipe shells, tank and vessel coverings, and other shapes. Features improved dimensional stability over a wider temperature range than standard polyurethane insulation. Not a known nutrient source for mold and mildew.

Applications

Used extensively in industrial and commercial applications with moderate density/strength requirements. Service temperature range: **–297°F to 300°F**.

Typical applications include:

- Fabricated pipe insulation, including elbows and fittings
- Cryogenic system insulation (including LNG)
- Tank and vessel insulation
- Core material for factory-built panelized constructions
- Core material for architectural and structural panels

Bunstock Sizes

DIMENSION	SIZE
Height	18"
Width	48"
Length	36"

Custom lengths available on request.

Installation

Easy to fabricate into pipe coverings, valve and fitting covers, and other shapes. Qualified designers should specify the total system for critical applications.

Physical Properties (ASTM C591, Grade 2, Type III)

PROPERTY	TEST METHOD	VALUE
Density	ASTM D1622	3.0 lb/ft³
Compressive Strength (parallel / perp. width / perp. length)	ASTM D1621	65 / 45 / 55 psi
Compressive Modulus (parallel / perp. width / perp. length)	ASTM D1621	1200 / 800 / 1200 psi
Shear Strength (avg)	ASTM C273	25 psi
Shear Modulus (avg)	ASTM C273	375 psi
Tensile Strength (parallel)	ASTM D1623	40 psi
Flexural Strength / Modulus	ASTM C203	60 psi / 1230 psi
Closed Cell Content	ASTM D6226	95%
Thermal Conductivity (k-Factor) @ 75°F mean temp, aged 180 days	ASTM C518	0.19 Btu·in/hr·ft²·°F
R-Value per Inch @ 75°F mean temp, aged 180 days	ASTM C518	5.3 hr·ft²·°F/Btu
Water Absorption	ASTM C272	< 0.7% by vol. (24-hr immersion)
Water Vapor Permeability	ASTM E96	3 perm-inches
Service Temperature	—	–297°F to 300°F
Surface Burning (ASTM E84) up to 6" thickness	ASTM E84	Flame Spread < 25 Smoke Developed < 450
Color	—	Tan

Dimensional Stability (ASTM D2126, % Change)

CONDITION	LENGTH	VOLUME
At –40°F, 7 days	–0.1%	–0.2%
At –10°F, 7 days	0.2%	0.2%
At 158°F, 7 days	1.5%	3.0%
At 158°F, 97% RH, 7 days	1.0%	2.4%
At 300°F, 97% RH, 7 days	1.4%	2.0%

Environmental Data

Specifically formulated without chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) blowing agents. Manufactured with hydrocarbon blowing agents that have no ozone depletion potential, in compliance with the Montreal Protocol and the Clean Air Act.

Safety Considerations

Requires care in handling. As with all cellular polymers, the product will degrade upon prolonged exposure to sunlight — a covering to block ultraviolet radiation must be used. Other protective coverings may be required. Refer to the current Safety Data Sheet (SDS) for safe handling, storage, and use information.

Notes

- Above 300°F, discoloration and charring will occur, resulting in an increased k-factor in the discolored area.
- Can be used below –297°F, but certain system design precautions may be necessary.
- Frequent/severe thermal cycling can produce dimensional changes greater than stated values.

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