



TRYMER® 25-50 POLYISOCYANURATE FOAM

Insulation | ASTM C591 Grade 2, Type IV | 25/50 Flame & Smoke Rated

Polyurethane-modified polyisocyanurate (PIR) cellular plastic supplied as bunstock for fabrication into sheets, pipe shells, tank and vessel coverings. Meets the most stringent flame spread and smoke developed ratings in most building codes — ideal for chilled water piping in commercial buildings, including plenums. Improved dimensional stability over a wider temperature range than standard polyurethane. Not a known nutrient source for mold and mildew.

Applications

Designed for applications requiring **Flame Spread** ≤ 25 and **Smoke Developed** ≤ 50 (ASTM E84). Ideal for commercial chilled water pipe insulation, including in plenums. Service temperature: **-297°F to 300°F**.

- Chilled water piping in commercial buildings & plenums
- Fabricated pipe insulation, elbows and fittings
- Tank and vessel insulation
- High closed-cell content, water resistance, low thermal conductivity

Bunstock Sizes

DIMENSION	SIZE
Height	24"
Width	48"
Length	36"

Custom lengths available.

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

PROPERTY	TEST METHOD	VALUE
Density	ASTM D1622	2.0 lb/ft ³
Compressive Strength (par / perp W / perp L)	ASTM D1621	24 / 18 / 23 psi
Shear Strength (avg)	ASTM C273	15 psi
Tensile Strength (parallel)	ASTM D1623	12 psi
Flexural Strength	ASTM C203	33 psi
Closed Cell Content	ASTM D6226	90%
Thermal Conductivity @ 75°F, aged 180 days	ASTM C518	0.19 Btu-in/hr-ft ² ·°F
R-Value per Inch @ 75°F, aged 180 days	ASTM C578	5.3 hr-ft ² ·°F/Btu
Water Vapor Permeability	ASTM E96	4 perm-inches
Service Temperature	—	-297°F to 300°F
Surface Burning (up to 1.5" thickness)	ASTM E84	FS < 25 / SD < 50
Color	—	Gray

Dimensional Stability (ASTM D2126, % Change)

CONDITION	LENGTH	VOLUME
At -40°F, 7 days	-0.3%	-0.2%
At 158°F, 97% RH, 7 days	1.3%	1.1%
At 300°F, 97% RH, 7 days	0.8%	0.3%

Environmental: CFC/HCFC free — manufactured with hydrocarbon blowing agents (no ozone depletion potential).

Note: Can be used below -297°F with system design precautions. Protect from prolonged UV exposure.

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