

# TRYMER<sup>®</sup> 250L

## Polyisocyanurate Foam

TRYMER<sup>®</sup> 250L rigid polyisocyanurate insulation is a cellular polymer supplied in bunstock form. It is ideal for applications where a mid density, intermediate compressive strength core material is needed.

This product is easily fabricated into sheets and is less brittle for improved handling over conventional polyisocyanurate foams.

### Applications

TRYMER<sup>®</sup> 250L Rigid Foam Insulation is used extensively in composite foam panel applications. It has a low index compared to conventional polyisocyanurate foams. This feature offers improved shear, tensile and flexural strengths, as well as allowing better adhesion to facers when using standard adhesives. The foam is also compatible with most thermoset resin adhesives, including vinyl esters and epoxies. ITW can provide general guidelines and recommendations for TRYMER<sup>®</sup> 250L foam. Call 1-800-231-1024 or contact your local ITW representative for details. Some typical applications include:

- Core material for insulated architectural and structural panels
- Core material for factory built panelized construction systems
- Insulation for shipping containers, trucks or railcars
- Core material for boats and yacht hulls
- Core material for military shelter applications

### SIZE

Height:	20" (56 cm)
Width:	48" (122 cm)
Length:	96" (244 cm)

Custom lengths are also available. Contact your local ITW representative for details.

### PHYSICAL/CHEMICAL PROPERTIES

TRYMER<sup>®</sup> 250L foam exhibits the properties and characteristics indicated in Table 1 when tested as represented.

As with all cellular plastics, TRYMER<sup>®</sup> 250L insulation will degrade upon prolonged exposure to sunlight. A covering to block ultraviolet radiation must be used to prevent this degradation. Other coverings to protect the insulation from the elements and to meet applicable fire regulations may also be required. Consultation with local building code officials, design engineers/specifiers or insurance personnel is recommended before application.

### ENVIRONMENTAL DATA

TRYMER<sup>®</sup> 250L foam is specifically formulated to provide excellent thermal insulation properties without the use of chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) blowing agents. In compliance with the Montreal Protocol and the Clean Air Act, TRYMER<sup>®</sup> 250L foam is manufactured with hydrocarbon blowing agents, which have no ozone depletion potential.

### FIRE PROTECTION

Consideration should be given to the benefits of and the costs of additional fire protection gained by installing automatic fire detection, alarm and suppression systems. Consultation with local building code officials, design engineers/specifiers or insurance personnel is recommended before application.

### Safety Considerations

TRYMER<sup>®</sup> 250L foam requires care in handling. All persons who work with this material must know and follow the proper handling procedures. The current Material Safety Data Sheet (MSDS) and handling guide contain information on the safe handling, storage and use of this material. For a copy of the MSDS, call 1-800-231-1024, visit [www.itwinsulation.com](http://www.itwinsulation.com) or contact your local ITW representative.

### Fabrication/Installation

TRYMER<sup>®</sup> 250L foam is easy to fabricate into various sizes and shapes to meet specific design needs. However, because of the critical technical design aspects of many of its applications, ITW recommends that qualified designers or consultants design the total system. Contact a local ITW representative or access the literature library at [www.itwinsulation.com](http://www.itwinsulation.com) for more specific instructions.

Physical Properties of TRYMER® 250L Polyisocyanurate Foam					
Property and Test Method		Value	Property and Test Method		Value
Density, ASTM D1622, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )		2.5 (40)	Closed Cell Content, ASTM D2845, %		95
Compressive Strength, ASTM D1621, lb/in <sup>2</sup> (kPa), parallel to rise		40 (275)	k-Factor, ASTM C518, 75°F (24°C) mean temp., Btu·in/hr·ft <sup>2</sup> ·°F (W/m <sup>2</sup> ·°C)		0.190 (0.027)
Compressive Modulus, ASTM D1621, lb/in <sup>2</sup> (kPa), parallel to rise		1000 (6900)	R-Value per inch, ASTM C578, °F·ft <sup>2</sup> ·h/Btu (m <sup>2</sup> ·°C/W), aged 180 days		5.3 (0.93)
Shear Strength, ASTM C273, lb/in <sup>2</sup> (kPa), average of parallel to rise and extruded directions		30 (200)	Dimensional Stability, ASTM D2126, % change At -30°F (-34°C), 7 days		-0.2
Shear Modulus, ASTM C273, lb/in <sup>2</sup> (kPa), parallel to rise		340 (2300)	At 158°F (70°C)/ 97% relative humidity, 7 days		1.2
Tensile Strength, ASTM D1623, lb/in <sup>2</sup> (kPa), 3D average		55 (400)	Water Absorption, ASTM C272, % by vol., 24-hour immersion		<0.7
Tensile Modulus, ASTM D1623, lb/in <sup>2</sup> (kPa), parallel to rise		1050 (7240)	Service Temperature, °F (°C)		-297 to +300 (-183 to +149)
Flexural Strength, ASTM C203, lb/in <sup>2</sup> (kPa), parallel to rise		55 (380)	Surface Burning Characteristics, ASTM E84, Flame Spread/Smoke Developed		25/130 up to 4" thickness
Flexural Modulus, ASTM C203, lb/in <sup>2</sup> (kPa), parallel to rise		880 (6070)			

## Availability

TRYMER® 250L foam is distributed through an extensive network of fabricators and distributors. For more information, call 1-800-231-1024.

## Technical Services

ITW can provide technical information to help address questions when using TRYMER® 250L foam. Technical personnel are available at 1-800-231-1024.

- For Technical Information: 1-800-231-1024
- For Sales Information: 1-800-231-1024
- ITW Insulation Systems
- 1370 East 40<sup>th</sup> Street, Building 7, Suite 1, Houston, TX 77022-4104
- [www.itwinsulation.com](http://www.itwinsulation.com)

NOTICE: No freedom from any patent owned by ITW or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. ITW Insulation Systems assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS, call ITW at 1-800-231-1024 or contact your local building inspector.

Building and/or construction practices unrelated to insulation could greatly affect moisture and the potential for mold formation. No material supplier including ITW can give assurance that mold will not develop in any specific system.