



**URECON**  
**PRE-INSULATED PIPE**

**INSULATION FABRICATOR**

## THE COMPANY

Urecon Ltd. (formerly Polybrand Inc.) is the most diversified distributor, fabricator and transformer of rigid insulation in eastern Canada. Our modern 2,110 m<sup>2</sup> (22,750 ft<sup>2</sup>) plant located in Rigaud, Québec is fully equipped to fabricate and transform a variety of rigid insulations to meet today's industrial requirements. Our principal product lines include: Dow Trymer<sup>®</sup> and Styrofoam<sup>®</sup>, Elliott Elfoam<sup>®</sup> and Pittsburgh Corning Foamglas<sup>®</sup> Insulation.

Urecon Ltd. can also supply the accessory materials such as jacketing, coatings, sealants, adhesives, strapping, etc.

## THE PRODUCTS

Trymer<sup>®</sup>, Elfoam<sup>®</sup>, Styrofoam<sup>®</sup> and Foamglas<sup>®</sup> products are all rigid insulations with varying properties, the choice of materials depending on the type of project:

Polybrand's insulation products are well suited for above or underground projects in the food industry, refineries, institutional, offshore, commercial & industrial hot or cold applications.

Once the insulation type has been selected, Polybrand Inc. can fabricate into any shape to suit your custom requirements. These include:

Insulation sections for pipes:

- standard halfshells up to 0,91 m (3 ft) in length.
- 'ship lap' halfshells.
- 'tongue and groove' halfshells.
- multi layer butt edge.

Insulation sheets and blocks:

- precision cut.
- sheet width up to 1,22 m (4 ft).
- sheet length up to 3,04 m (10 ft).
- sheet thickness from 13 mm (1/2 in) and thicker.
- custom cutting to suit your needs.

Custom shapes and forms fabricated to special order.

Contact Polybrand for full product specifications and recommendations to suit your needs.



*Cutting Trymer<sup>®</sup> pipe covering at Polybrand.*

## TRYMER® INSULATION

Trymer® closed-cell polyisocyanurate foam insulation is manufactured by Dow Plastics and offers excellent resistance to heat transfer. The low thermal conductivity means less Trymer® insulation is needed to meet your thermal insulation requirements. This means significant savings in installation time and materials.

This insulation may be fabricated into various shapes to suit virtually any insulation application. It is available in a range of densities and compressive strengths for a variety of applications, including:

- pipe and vessel insulation;
- core materials for structural panels.



**Application of Trymer® pipe covering on a piping network.**

Trymer® has a service temperature range from -183 °C (-297 °F) to 149 °C (300 °F).

### Physical Properties of TRYMER® Brand Polyisocyanurate Foam

TESTED @ 23 °C (75 °F)	ASTM METHOD	TRYMER 1600	TRYMER 1800	TRYMER 2000	TRYMER 3000	TRYMER 4000	TRYMER 6000
<b>Density</b> kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	D 1622	26,4 (1.65)	29 (1.8)	32,8 (2.05)	48 (3.0)	64 (4.0)	96 (6.0)
<b>k-factor</b> W/m • °C (BTU • in./hr • ft <sup>2</sup> °F) 180 days @ 75 °F mean	C 518	0,027 (0.19)	0,027 (0.19)	0,027 (0.19)	0,027 (0.19)	0,027 (0.19)	0,029 (0.20)
<b>R-Value</b> m <sup>2</sup> • °C/W (Hr • ft <sup>2</sup> • °F/BTU) 180 days @ 75 °F mean	C 518	0,93 (5.3)	0,93 (5.3)	0,93 (5.3)	0,93 (5.3)	0,93 (5.3)	0,88 (5.0)
<b>Compression Strength</b> kPa (psi) parallel	D 1621	117 (17)	131 (19)	165 (24)	350 (50)	550 (80)	970 (140)

*NOTICE: Like all cellular plastics, this product 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 foam 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.*

Dow Trymer® is combustible and must be protected from flame and other high heat sources.

## ELFOAM® INSULATION

Elfoam® P200 polyisocyanurate closed-cell, rigid foam insulation is suitable for a variety of thermal insulation applications.

Most flexible and less friable of the poly isocyanurate board insulations, Elfoam® is particularly suited for applications involving cut sheets such as:

- FRP tank sandwich core top, bottom and wall insulation.

- core insulation material for laminated architectural and cold storage warehouse sandwich panels.
- insulation for refrigerated shipping containers such as trucks, trailers and railcars.
- core material for commercial and industrial doors.

Elfoam® P200 brand insulation has a service temperature range from -46 °C (-50 °F) to 121 °C (250 °F).

## STYROFOAM® INSULATION

Dow Plastic's Styrofoam® PIB\* brand insulation is manufactured to have a rigid, closed-cell foam with a uniform void-free, micro cellular structure. This dense, compact structure ensures excellent resistance to water, water vapor and wet freeze-thaw cycling.

As a result, Styrofoam® insulation maintains virtually all of its original R value for years, even in high moisture environments, where porous insulation products are susceptible to moisture absorption and ultimate loss of insulation effectiveness. Styrofoam® brand insulation resists acids, bases, brines and alcohol. This rigid foam has no food value to attract or sustain plant or animal life.

Over the years, Styrofoam® insulation has been specified for its ability in minimizing heat gain and preventing surface condensation.

Styrofoam® brand insulation is suitable for:

- valve / fitting covers.
- pipe covering.
- equipment lagging, etc.

Styrofoam® has a service temperature range from -183 °C (-297 °F) to 74 °C (165 °F).

Styrofoam® brand insulation can be precision fabricated by Polybrand to meet your specifications for a wide range of piping and fitting applications.

\* PIB (Pipe Insulation Billet)



Application of Styrofoam® pipe covering.

### Physical Properties of STYROFOAM® brand insulation

TESTED @ 23 °C (75 °F)	ASTM METHOD	STYROFOAM®
<b>Density</b> kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	D 1622	26 (1.6)
<b>k-factor</b> W/m • °C (BTU • in./hr • ft <sup>2</sup> °F) 10 days @ 158°F mean 5 year @ 75 °F mean	C 518	0,036 (0.25) 0,041 (0.28)
<b>R-Value</b> m <sup>2</sup> • °C/W (Hr • ft <sup>2</sup> • °F/BTU) 180 days @ 75 °F mean	C 518	0,70 (4.0)
<b>Compression Strength</b> kPa (psi) parallel	D 1621	138 (20)

### Physical Properties of ELFOAM® P200 insulation\*

TESTED @ 23 °C (75 °F)	ASTM METHOD	ELFOAM®
<b>Density</b> kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	D 1622	31,9 (2.0)
<b>k-factor</b> W/m • °C (BTU • in./hr • ft <sup>2</sup> °F) 10 days @ 158°F mean	C 518	0,027 (0.185)
<b>R-Value</b> m <sup>2</sup> • °C/W (Hr • ft <sup>2</sup> • °F/BTU) 180 days @ 75 °F mean	C 518	0,96 (5.4)
<b>Compression Strength</b> kPa (psi) parallel	D 1621	172 (25)

\* P250 and P300 (2.5 and 3.0 lb/ft<sup>3</sup> density) also available



Cutting sheets of Elfoam® on Polybrand's slabbing saw.

NOTICE: Elfoam® like all cellular plastics, will degrade upon prolonged exposure to sunlight. Cover all foam material in order to block ultraviolet radiation and prevent degradation.

## FOAMGLAS<sup>®</sup> INSULATION

Pittsburgh Corning Foamglas<sup>®</sup> insulation is a lightweight, rigid insulating material composed of millions of completely sealed glass cells, each an insulating space. This all-glass, closed cell structure provides a combination of physical properties suitable for industrial insulation requirements.

Foamglas<sup>®</sup> brand insulation is resistant to water in both liquid and vapor forms, non corrosive, noncombustible / nonabsorbent of combustible liquids, resistant to most industrial reagents, dimensionally stable, superior compressive strength.

Foamglas<sup>®</sup> brand insulation is suitable for a wide range of service, proven applications include:

- cryogenic pipelines, tanks, vessels, etc.
- medium and high temperature pipelines and equipment.
- heat transfer fluid systems.
- hydrocarbon and sulfur processing systems.
- underground steam and chilled water pipelines.
- non combustible insulation for offshore platforms.

Foamglas<sup>®</sup> brand insulation has a service temperature range from -268 °C (-450 °F) to 482 °C (900 °F).

Foamglas<sup>®</sup> insulation is manufactured by Pittsburgh Corning in block form, then assembled, cut, tapered or otherwise transformed as required by Polybrand. A selection of outer jacketing materials is available for Foamglas<sup>®</sup> insulation including Pittwrap<sup>®</sup> (for underground applications), aluminum or other jacketing materials for above ground applications.



*Cutting Foamglas<sup>®</sup> pipe covering.*

### Physical Properties of FOAMGLAS<sup>®</sup> brand insulation

TESTED @ 23 °C (75 °F)	ASTM METHOD	FOAMGLAS <sup>®</sup>
<b>Density</b> kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	C 303	120 (7.5)
<b>k-factor</b> W/m•°C (BTU•in./hr•ft <sup>2</sup> °F) 180 days @ 75 °F mean	C 518	0,042 (0.29)
<b>R-Value</b> m <sup>2</sup> •°C/W (Hr•ft <sup>2</sup> •°F/BTU) 180 days @ 75 °F mean	C 518	0,60 (3.4)
<b>Compression Strength</b> kPa (psi) parallel	C 165	620 (90)



*Various shapes of Foamglas<sup>®</sup> insulation.*

## TYPICAL APPLICATIONS



*'Wrap-around bevelled lagging system' manufactured by Polybrand from Trymer® foam for a large diameter oil transmitting pipeline.*



*Installing Pittwrap® jacketing over Foamglas® insulation in a buried steam transmission application.*



*Trymer® brand foam insulation used to insulate piping in a freeze protection application.*



*Styrofoam® brand foam insulation used to insulate a vessel.*

*NOTICE: This publication is intended to give the reader an overview of the insulation materials distributed and fabricated by Urecon Ltd. Each insulation material has certain limitations regarding their application, such as operating temperature, combustibility, or other limiting / safety factors. Urecon will be pleased to provide complete product description, specification, installation instructions, safety and handling procedures for each of the products we offer.*

Urecon believes that the information contained herein is accurate and reliable at the date of publication but no warranty expressed or implied is given.

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