



# FOAMULAR® INSULPINK®-Z

## Extruded Polystyrene (XPS) Rigid Foam Insulation

### Product Data Sheet



#### **Energy-Saving, Moisture-Resistant XPS Insulation** Insulation for Z-Furring Channels ASTM C578 Type X, 15 psi minimum

#### **Description**

INSULPINK®-Z insulation is extremely lightweight for easy handling and provides a compressive strength of 15 psi, which meets the requirements of a vertical wall application. INSULPINK®-Z insulation provides an R-value of 5 per inch of product thickness, and outstanding resistance to moisture for long-term retention of the thermal performance. INSULPINK®-Z insulation is produced by Owens Corning's patented HYDROVAC® process technology under conditions of strict quality control.

#### **Key Features**

- Helps reduce job site labor costs while you install premium insulation

- INSULPINK®-Z insulation is pre-cut to a nominal width of 23 $\frac{7}{8}$ " x 96" length panels, eliminating costly cutting of insulation panels to fit 24" o.c. Z-channels
- Available in a thickness of 1 $\frac{1}{2}$ " and 2" with square edges
- Excellent long-term stable insulating performance with an R-value of R-5<sup>1</sup> per inch
- Exceptional moisture resistance, long-term durability
- Limited lifetime warranty<sup>2</sup>—maintains 90% of R-value and covers all ASTM C578 properties
- The only XPS foam to be GREENGUARD Children & Schools Certified<sup>SM</sup>
- The only XPS foam with certified recycled content—certified by SCS Global Services to contain a minimum 20% recycled content
- Will not corrode, rot or support mold growth
- Zero ozone depletion potential with 70% less global warming potential than our previous formula
- Reusable
- Lightweight, durable rigid foam panels are easy to handle and install
- Easy to saw, cut or score

#### **Technical Information**

This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code. For additional information, consult MSDS or contact Owens Corning

World Headquarters at  
1-800-GET-PINK®.

All construction should be evaluated for the necessity to provide vapor retarders. See current ASHRAE Handbook of Fundamentals.

FOAMULAR® XPS insulation is a non-structural material and must be installed on framing which is independently braced and structurally adequate to meet required construction and service loading conditions.

FOAMULAR® insulation can be exposed to the exterior during normal construction cycles. During that time some fading of color may begin due to UV exposure, and, if exposed for extended periods of time, some degradation or "dusting" of the polystyrene surface may begin. It is best if the product is covered within 60 days to minimize degradation. Once covered, the deterioration stops, and damage is limited to the thin top surface layers of cells. Cells below are generally unharmed and still useful insulation.

#### **Standards, Codes Compliance**

- Meets ASTM C 578 Type X
- UL Classified. A copy of UL Classification Certificate U-197 is available at [www.foamular.com](http://www.foamular.com)



- See UL ER8811-01 at UL.com
- See [www.foamular.com](http://www.foamular.com) for details on listings, constructions and assemblies



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- Meets California Quality Standards and HUD UM #71A
- Compliance verification by RADCO (AA-650)

#### Certifications and Sustainable Features of FOAMULAR® XPS insulation

- FOAMULAR® XPS insulation is reusable
- FOAMULAR® XPS insulation is made with a zero ozone depletion formula
- Certified by SCS Global Services to contain a minimum of 20% recycled content
- Certified to meet indoor air quality standards under the stringent GREENGUARD Certification Program, and GREENGUARD Gold Certification Program
- Approved under the Home Innovation Research Labs NGBS Green Certification Program
- Utilizing FOAMULAR® XPS insulation can help achieve green building certifications including the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) certification
- FOAMULAR® XPS insulation may qualify for The Buy American provision of the American Recovery and Reinvestment Act (ARRA)

#### Typical Physical Properties<sup>1</sup>

FOAMULAR® INSULPINK®-Z XPS Insulation

Property	Test Method <sup>2</sup>	Value
<b>Thermal Resistance<sup>3</sup>, R-Value (180 day) minimum,</b> hr•ft <sup>2</sup> •°F/Btu (RSI, °C•m <sup>2</sup> /W) @ 75°F (24°C) mean temperature	ASTM C518	
1½" Thickness		7.5 (1.32)
2" Thickness		10 (1.76)
@ 40°F (4.4°C) mean temperature		
1½" Thickness		8.1 (1.43)
2" Thickness		10.8 (1.90)
<b>Long Term Thermal Resistance, LTTR-Value<sup>3</sup> minimum</b> hr•ft <sup>2</sup> •°F/Btu (RSI, °C•m <sup>2</sup> /W) @ 75°F (24°C) mean temperature	CAN/ULC S770-03	
1½" Thickness		7.8 (1.37)
2" Thickness		10.6 (1.87)
<b>Compressive Strength<sup>4</sup>, minimum psi (kPa)</b>	ASTM D1621	15 (103)
<b>Flexural Strength<sup>5</sup>, minimum psi (kPa)</b>	ASTM C203	60 (414)
<b>Water Absorption<sup>6</sup>, maximum % by volume</b>	ASTM C272	0.10
<b>Water Vapor Permeance<sup>7</sup>, maximum perm (ng/Pa•s•m<sup>2</sup>)</b>	ASTM E96	1.5 (86)
<b>Dimensional Stability, maximum % linear change</b>	ASTM D2126	2.0
<b>Flame Spread<sup>8,9</sup></b>	ASTM E84	5
<b>Smoke Developed<sup>8,9,10</sup></b>	ASTM E84	45-175
<b>Oxygen Index<sup>8</sup>, minimum % by volume</b>	ASTM D2863	24
<b>Service Temperature, maximum °F (°C)</b>	—	165 (74)
<b>Linear Coefficient of Thermal Expansion, in/in/°F (m/m/°C)</b>	ASTM E228	3.5 x 10 <sup>-5</sup> (6.3 x 10 <sup>-5</sup> )

1. Properties shown are representative values for 1" thick material, unless otherwise specified.
2. Modified as required to meet ASTM C578.
3. R means the resistance to heat flow; the higher the value, the greater the insulation power. This insulation must be installed properly to get the marked R-value. Follow the manufacturer's instructions carefully. If a manufacturer's fact sheet is not provided with the material shipment, request this and review it carefully. R-values vary depending on many factors including the mean temperature at which the test is conducted, and the age of the sample at the time of testing. Because rigid foam plastic insulation products are not all aged in accordance with the same standards, it is useful to publish comparison R-value data. The R-value for FOAMULAR® XPS insulation is provided from testing at two mean temperatures, 40°F and 75°F, and from two aging (conditioning) techniques, 180 day real-time aged (as mandated by ASTM C578) and a method of accelerated aging sometimes called "Long Term Thermal Resistance" (LTTR) per CAN/ULC S770-03. The R-value at 180 day real-time age and 75°F mean temperature is commonly used to compare products and is the value printed on the product.
4. Values at yield or 10% deflection, whichever occurs first.
5. Value at yield or 5%, whichever occurs first.
6. Data ranges from 0.00 to value shown due to the level of precision of the test method.
7. Water vapor permeance decreases as thickness increases.
8. These laboratory tests are not intended to describe the hazards presented by this material under actual fire conditions.
9. Data from Underwriters Laboratories Inc.® classified. See Classification Certificate U-197.
10. ASTM E 84 is thickness-dependent, therefore a range of values is given.

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#### Warranty

FOAMULAR® XPS insulation limited lifetime warranty maintains 90% of its R-value for the lifetime of the building and covers all ASTM C578 properties. See actual warranty for complete details, limitations and requirements at [www.foamular.com](http://www.foamular.com) or [www.owenscorningcommercial.com](http://www.owenscorningcommercial.com).

#### Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems,



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#### Product and Packaging Data

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Material		Packaging						
Extruded polystyrene closed-cell foam panel with continuous skins on top and bottom surfaces.		Shipped in poly-wrapped units with individually wrapped or banded bundles.						
Thickness (in)	Product Dimensions Thickness (in) x Width (in) x Length (in)	Pallet (Unit) Dimensions (typical) Width (ft) x Length (ft) x Height (ft)	Square feet per Pallet	Board feet per Pallet	Bundles per Pallet	Pieces per Bundle	Pieces per Pallet	Edges
1½	1.5 x 23.875 x 96	4 x 8 x 8	2,037	3,056	8	16	128	Square
2	2 x 23.875 x 96	4 x 8 x 8	1,528	3,056	8	12	96	

1. Product availability and lead times vary by region and by product. Consult your local Owens Corning sales representative for availability and lead times.

#### Notes

1. R means the resistance to heat flow; the higher the R-value, the greater the insulating power.
2. See actual warranty for complete details, limitations and requirements.

All products described here may not be available in all geographic markets. Consult your local sales office representative for more information.

For more information on the Owens Corning family of building products, contact your Owens Corning dealer, call 1-800-GET-PINK®, or access our web sites: [www.foamular.com](http://www.foamular.com) and [www.owenscorning.com](http://www.owenscorning.com).



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GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit [ul.com/gg](http://ul.com/gg).

This Home Innovation Research Labs Green Approved mark is your assurance that a product is eligible for points toward National Green Building Certification. Visit [www.GreenApprovedProducts.com](http://www.GreenApprovedProducts.com) for details.

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