

Product Data Sheet



Energy-Saving, Moisture-Resistant XPS Insulation

Reinforced Insulating Sheathing for Extra Damage Control

ASTM C578 Type X, 15 psi minimum

Description

PROPINK® reinforced insulating sheathing is an extruded polystyrene (XPS) insulation board with a reinforced skin laminated on both sides for extra damage control on the job-site. The product is ideal for either wood or metal framing construction, and suits a variety of exterior finishes. It is designed to withstand job-site damage with a reinforced film laminate which provides an increased level of bend-but-don't-break strength, flexibility and puncture resistance. It is highly resistant to moisture and retains its long term R-value year after year—even after prolonged exposure to moisture and freeze/thaw cycling.

PROPINK® reinforced insulating sheathing is used as a sheathing over all exterior walls in wood and metal framing construction, creating an effective insulating envelope around the entire

structure. For residing applications, the product can be installed directly over the existing siding to reduce air infiltration and create a smooth surface for the new exterior finish. When using PROPINK® reinforced insulating sheathing, or any low perm insulating sheathing, always verify the moisture vapor flow and dewpoint characteristics of the wall system.

The product's R-5 value per inch of product thickness is better than wood fiber, plywood or ½" gypsum panels. It readily combines continuous insulating sheathing to reduce thermal shorts through stud framing, with blanket insulation for a greater overall wall R-value.

PROPINK® reinforced insulating sheathing can be used in hourly fire resistance rated exterior wall assemblies for application in office buildings, schools, shopping centers and more.

The product's reinforced skin provides added strength and flexibility. Its edge-to-edge laminate coverage provides excellent nail-holding at joints.

PROPINK® reinforced insulating sheathing is easy to handle, cut and install without the difficulties of foil facing. The product can be cut all the way through with a sharp knife or saw.

The product effectively resists mildew, corrosion and rot. It meets applicable codes and standards.

Key Features

- Excellent long-term stable insulating performance of R-3, R-4 and R-5¹
- Exceptional moisture resistance, long-term durability
- Limited lifetime warranty²—maintains 90% of R-value and covers all ASTM C578 properties
- The only XPS foam to be GREENGUARD Children & Schools CertifiedSM.
- The only XPS foam with certified recycled content—certified by Scientific Certification Systems (SCS) 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®.



FOAMULAR® PROPINK®

Extruded Polystyrene (XPS) Rigid Foam Insulation

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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 C578 Type X
- UL Classified. A copy of UL Classification Certificate U-207 is available at www.foamular.com
- See ICC-ES Evaluation Report ESR-1061 at www.icc-es.org



Typical Physical Properties¹

FOAMULAR® PROPINK® Insulating Sheathing Insulation

Property	Test Method ²	Value
Thermal Resistance³, R-Value (180 day) minimum, hr•ft ² •°F/Btu (RSI, °C•m ² /W)		
@ 75°F (24°C) mean temperature	ASTM C518	
½" Thickness		3.0 (0.53)
¾" Thickness		4.0 (0.70)
1" Thickness		5.0 (0.88)
@ 40°F (4.4°C) mean temperature		
½" Thickness		3.2 (0.57)
¾" Thickness		4.3 (0.76)
1" Thickness		5.4 (0.95)
Long Term Thermal Resistance, LTTR-Value³ hr•ft ² •°F/Btu (RSI, °C•m ² /W)		
@ 75°F (24°C) mean temperature	CAN/ULC S770-03	
½" Thickness		N/A
¾" Thickness		N/A
1" Thickness		5.0 (0.88)
Flexural Strength⁴, minimum psi (kPa)		
	ASTM C203	
½" Thickness		100 (690)
¾" Thickness		85 (586)
1" Thickness		65 (448)
Compressive Strength⁵, minimum psi (kPa)		
	ASTM D1621	15 (103)
Water Absorption⁶, maximum % by volume		
	ASTM C272	0.10
Water Vapor Permeance⁷, maximum perm (ng/Pa•s•m²)		
	ASTM E96	0.2 (11.5)
Dimensional Stability, maximum % linear change		
	ASTM D2126	2.0
Flame Spread^{8,9}		
	ASTM E84	30
Smoke Developed^{8,9}		
	ASTM E84	75
Oxygen Index⁸, minimum % by volume		
	ASTM D2863	24
Service Temperature, maximum °F (°C)		
	—	165 (74)
Linear Coefficient of Thermal Expansion, in/in/°F (m/m/°C)		
	ASTM E228	3.5 x 10 ⁻⁵ (6.3 x 10 ⁻⁵)

1. Properties shown are representative values for core 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. Value at yield or 5%, whichever occurs first.
5. Values at yield or 10% deflection, 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-207.

- ASTM E119 Fire Resistance Rated Wall Assemblies. See www.foamular.com for details
- 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



FOAMULAR® PROPINK® Extruded Polystyrene (XPS) Rigid Foam Insulation

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Product and Packaging Data

FOAMULAR® PROPINK® Insulating Sheathing Insulation

Material		Packaging						
Extruded polystyrene product with a closed-cell foam panel with clear film facers on both sides.		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
½	½ x 48 x 96	4 x 8 x 8	5,120	2,560	8	20	160	Square
	½ x 48 x 108	4 x 9 x 8	5,760	2,880	8	20	160	
¾	¾ x 48 x 96	4 x 8 x 8	4,096	3,072	8	16	128	Tongue & Groove
	¾ x 48 x 108	4 x 9 x 8	4,608	3,456	8	16	128	
1	1 x 48 x 96	4 x 8 x 8	3,072	3,072	8	12	96	

1. Available lengths and edge configurations vary by thickness. See www.foamular.com for current offerings. Other sizes may be available upon request. Consult your local Owens Corning representative for availability.

- Certified by Scientific Certification Systems to contain a minimum of 20% pre-consumer recycled polystyrene
- Certified to meet indoor air quality standards under the stringent GREENGUARD Indoor Air Quality Certification ProgramSM, and the GREENGUARD Children & Schools Certification ProgramSM
- Qualified as an ENERGY STAR® product, under the U.S. Environmental Protection Agency and the U.S. Department of Energy
- Approved under the National Association of Home Builders (NAHB) Research Center Green Seal of Approval
- Utilizing FOAMULAR® XPS insulation can help builders achieve green building certifications including the Environmental Protection Agency's ENERGY STAR®, the National Association of Home Builders' National Green Building certification, and 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)

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at www.sustainability.owenscorning.com.

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 or www.owenscorningcommercial.com.

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 and www.owenscorning.com.



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FOAMULAR® PROPINK® Extruded Polystyrene (XPS) Rigid Foam Insulation

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