FOAMULAR® & FOAMULAR® NGX™

150

EXTRUDED POLYSTYRENE (XPS)
RIGID FOAM INSULATION

Owens Corning® FOAMULAR® & FOAMULAR® NGX™ 150 Extruded Polystyrene XPS Rigid Foam Insulation is a closed cell, moisture-resistant rigid foam board well suited to meet the need for a wide variety of building applications. 1 FOAMULAR® & FOAMULAR® NGX™ 150 Extruded Polystyrene XPS Rigid Foam Insulation is great for many residential and commercial construction above grade applications such as wall furring, cavity wall, sheathing and other applications. 1

FOAMULAR® NGX™ 150 contains the additional benefit of being manufactured with a blowing agent formulation that delivers a 90% reduction to Global Warming Potential (100 year), including the complete elimination of HFC 134a. 2

1 Not for use in flat or low slope roofing. For low slope roofing applications, use FOAMULAR® and FOAMULAR® NGX™ THERMAPINK® Extruded Polystyrene (XPS) Rigid Foam Insulation.

2 Compared to FOAMULAR® 150 blowing agent formulation.

Features
SUPERIOR MOISTURE RESISTANCE
DURABLE
EASY TO CUT, FORM & FIT

Standards, Codes Compliance
• Meets ASTM C578 Type X
• UL Classification Certificate U-197
• Code Evaluation Report UL ER8811-01
• ASTM E119 Fire Resistance Rated Wall Assemblies 3
• Meets California Quality Standards; HUD UM #71a

Applications
• Cavity walls
• Wall Sheathing
• Weather Resistant Barrier (when joints are sealed)
• Perimeter/Foundation Walls
• Basement Walls (cannot be left exposed and must be covered by thermal barrier such as gypsum drywall)

Physical Properties

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Resistance, R-Value, hr•F/Btu (RIS), °C•m2/W</td>
<td>ASTM C518</td>
<td>5.0 (0.88)</td>
</tr>
<tr>
<td>@ 75°F (24°C) mean temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ 40°F (4.4°C) mean temperature</td>
<td>CAN/ULC S770-03</td>
<td>5.4 (0.95)</td>
</tr>
<tr>
<td>@ 25°F (-3.9°C) mean temperature</td>
<td></td>
<td>5.6 (0.99)</td>
</tr>
<tr>
<td>Long Term Thermal Resistance, LTTR-Value, minimum hr•F/Btu (RIS), °C•m2/W</td>
<td>ASTM D1621</td>
<td>5.0 (0.88)</td>
</tr>
<tr>
<td>@ 75°F (24°C) mean temperature</td>
<td>ASTM E69</td>
<td>1.5 (0.86)</td>
</tr>
<tr>
<td>Compressive Strength, minimum psi (kPa)</td>
<td>ASTM D1621</td>
<td>15 (104)</td>
</tr>
<tr>
<td>Flexural Strength, minimum psi (kPa)</td>
<td>ASTM C263</td>
<td>40 (276)</td>
</tr>
<tr>
<td>Water Absorption, maximum % by volume</td>
<td>ASTM C272</td>
<td>0.3</td>
</tr>
<tr>
<td>Water Vapor Permeance, maximum perm (ng/Pa•s•m2/W)</td>
<td>ASTM E96</td>
<td>2.0</td>
</tr>
<tr>
<td>Dimensional Stability, maximum % linear change</td>
<td>ASTM D2126</td>
<td>1.5 (86)</td>
</tr>
<tr>
<td>Flame Spread 1, 6</td>
<td>ASTM E84</td>
<td>10</td>
</tr>
<tr>
<td>Smoke Developed 1, 6</td>
<td>ASTM E84</td>
<td>175</td>
</tr>
<tr>
<td>Oxygen Index 1, minimum % by volume</td>
<td>ASTM D2863</td>
<td>24</td>
</tr>
<tr>
<td>Service Temperature, maximum °F (°C)</td>
<td></td>
<td>165 (74)</td>
</tr>
<tr>
<td>Linear Coefficient of Thermal Expansion, in/in°F (m/m°C)</td>
<td>ASTM E228</td>
<td>3.5 x 10^-5 (6.3 x 10^-5)</td>
</tr>
</tbody>
</table>

3 Visit www.owenscorning.com for more details.

4 Properties shown are representative values for 1” thick material, unless otherwise specified.
5 Modified as required to meet ASTM C578
6 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. The U.S. FTC requires the R-value of home insulation to be measured at 75 degrees F mean temperature. R-value claims should always be compared at the same Mean Temperature. 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 three mean temperatures, 25°C, 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.
7 Values at yield or 10% deflection, whichever occurs first.
8 Value at yield or 5%, whichever occurs first.
9 Data ranges from 0.00 to value shown due to the level of precision of the test method.
10 Water vapor permeance decreases as thickness increases.
11 These laboratory tests are not intended to describe the hazards presented by this material under actual fire conditions.
12 Data from Underwriters Laboratories Inc.® classified. See Classification Certificate U-197.
Environmental Product Declaration (EPD) has been certified by SCS Global Services to contain a minimum of 20% recycled content pre-consumer.

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

Environmental Product Declaration (EPD) has been certified by UL Environment.

Utilizing FOAMULAR® & FOAMULAR® NGX™ XPS insulation can help builders achieve green building certifications including the U.S. Green Building Council’s Leadership in Energy and Environmental Design (LEED®) certification.

Limited Warranty

FOAMULAR® & FOAMULAR® NGX™ XPS insulation limited lifetime warranty maintains 90% of its R-value for the lifetime of the building and covers all ASTM C 578 properties. See FOAMULAR® “Extruded Polystyrene Insulation Lifetime Limited Warranty” for complete details, limitations, and requirements.

Disclaimer of Liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient’s sole risk. Because conditions of use may vary and are beyond our control, Owens Corning makes no representation about, and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein.

SCS Global Services provides independent verification of recycled content in building materials and verifies recycled content claims made by manufacturers. For more information, visit www.SCSglobalservices.com.

LEED® is a registered trademark of the U.S. Green Building Council.

Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via http://sds.owenscorning.com.

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.owenscorning.com.

FOAMULAR® is manufactured with a polystyrene resin and blend of HFC blowing agents that have a global warming potential (100 year) of less than 750.

FOAMULAR® NGX™ is manufactured with a polystyrene resin and a blend of HFO and HFC blowing agents that have a global warming potential (100 year) of less than 80.

Environmental and Sustainability

Product and Packaging Data

Certifications and Sustainable Features

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