

Range-Glas® XG™
Thermal Insulation

Description

Range-Glas XG is a lightweight, white insulation designed to provide excellent thermal performance in all types of residential and commercial ovens. The insulation blanket is manufactured from rotary-process fiber glass bonded with a special thermosetting acrylic resin.

Range-Glas XG insulation emits minimal smoke and odor during initial heat-up, the cleaning cycle of self-cleaning ranges or the initial broil cycle of standard ovens.

Range-Glas XG is available in roll form in a broad range of thicknesses, densities and dimensions. The friendlier feel of the blanket provides ease of handling during processing and installation.

Custom Fabrication

The Johns Manville nationwide network of Approved Fabricators specializes in secondary processing to supply custom parts to meet specific customer requirements. Die-cutting, laminating, special packaging and just-in-time delivery are just a few of the multiple capabilities our fabricators can provide.



Specifications

Temperature Limit	1000°F (538°C)
Corrosiveness	Passes ASTM C 665 for steel, aluminum and copper
Fire Hazard Classification (FHC)	FHC 25/50 per ASTM E 84, UL 723 and CAN/ULC S102 - M88. Meets NFPA 90A and 90B

Range-Glas XG - Available Densities/Thicknesses

Density		Thickness (in 1/2" [13 mm] increments)	
pcf	kg/m³	in	mm
1.02	16	1.0 - 4.0	25-102
1.26	20	1.0 - 3.0	25-76
1.76	28	1.0 - 2.0	25-51
2.00	32	1.0 - 2.0	25-51
2.50	40	1.0 - 1.5	25-38

Sound Absorption Coefficients (Type "A" Mounting) for 1" (25 mm) Thickness

Density		NRC
pcf	kg/m³	
1.02	16	0.65
1.26	20	0.75
1.76	28	0.80
2.00	32	0.80
2.50	40	0.80

Note: Coefficients were tested in accordance with ASTM C 423 and ASTM E 795 test methods.

Green Building Attributes

Recycled Content*	
Post-consumer Glass	20% minimum
Pre-consumer Glass	5%

* North American plant-wide average

Green Building Certifications

Recycled Content	SCS Certified
ES 1350 Compliance	Not Certified
LEED Credits	See JM.com/buildgreen JM LEED Credit Guide HIG-1231
EcoLogo™- Canadian Environmental Choice Program	N/A



Range-Glas® XG™ contains 20% post-consumer recycled glass

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Range-Glas XG - Thermal Conductivity (k) Per ASTM C 518

Density		Thermal Conductivity (k)					
		75°F (24°C) Mean Temperature		300°F (149°C) Mean Temperature		500°F (260°C) Mean Temperature	
pcf	kg/m ³	Btu•in/(hr•ft ² •°F)	W/m•°C	Btu•in/(hr•ft ² •°F)	W/m•°C	Btu•in/(hr•ft ² •°F)	W/m•°C
1.02	16	0.26	0.037	0.46	0.066	0.74	0.107
1.26	20	0.24	0.035	0.42	0.061	0.66	0.095
1.76	28	0.23	0.033	0.38	0.055	0.58	0.084
2.00	32	0.22	0.032	0.35	0.051	0.53	0.076
2.50	40	0.22	0.032	0.33	0.048	0.48	0.069



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Technical Information

(800) 458-7198

The physical and chemical properties of Range-Glas® XG™ Insulation listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Regional Sales Office nearest you to assure current information. **All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions including Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions, Limited Warranty and Limitation of Remedy, and information on other Johns Manville thermal insulations and systems, call (800) 654-3103.**

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