OEM Insulations

Range-Glas® XG™

Application & Performance Profile

- **Oven Wrap**
- **Door**
- **Back Panel**
- **Warming Drawer**
- **Under Burner**
- **Gaskets**

Oven & Range Applications

Thermal Analysis

Simulated Parameters: Steady State Conditions, Ambient Temperature: 75ºF, 0.9 Emissivity, 0.0 Wind Speed

2.5 lbs/ ft³ 1.5" thickness	
Oven Temp.(ºF)	**Touch Temp.(ºF)**
800	172
750	163
700	154
650	146
600	138
500	124

1.76 lbs/ ft³ 1.5" thickness	
Oven Temp.(ºF)	**Touch Temp.(ºF)**
700	167
650	157
600	147
500	129

1.02 lbs/ ft³ 1.5" thickness	
Oven Temp.(ºF)	**Touch Temp.(ºF)**
600	159
500	139

NOTE: Thermal modeling based upon NAIMA 3E Plus®. Data generated in these calculations is based on the given input information. Actual values will vary depending on actual service conditions. The thermal performance equations are based upon laboratory conditions and may not represent actual conditions of use. 3E Plus® is a registered trademark of NAIMA.

Range-Glas® XG™ Material Properties

Density (pcf)	Thickness (in.)	TRS Equivalent	Thermal Conductivity (Btu•in/(hr•ft²•°F))				R-Value (hr•ft²•°F) /Btu @ 75°F	Noise Reduction Coefficient (NRC) at 1"
			k Value @ 75°F	k Value @ 300°F	k Value @ 500° F	k Value @ 700° F		
1.02	1.00	10	0.26	0.46	0.74	1.10	3.8	0.65
1.02	1.50	10	0.26	0.46	0.74	1.10	5.8	-
1.02	2.00	10	0.26	0.46	0.74	1.10	7.7	-
1.02	2.50	10	0.26	0.46	0.74	1.10	9.6	-
1.02	3.00	10	0.26	0.46	0.74	1.10	11.5	-
1.02	3.50	10	0.26	0.46	0.74	1.10	13.5	-
1.02	4.00	10	0.26	0.46	0.74	1.10	15.4	-
1.26	1.00	20	0.24	0.42	0.66	TBD	4.2	0.75
1.26	1.50	20	0.24	0.42	0.66	TBD	6.3	-
1.26	2.00	20	0.24	0.42	0.66	TBD	8.3	-
1.26	2.50	20	0.24	0.42	0.66	TBD	10.4	-
1.26	3.00	20	0.24	0.42	0.66	TBD	12.5	-
1.76	1.00	30	0.23	0.38	0.58	0.89	4.3	0.80
1.76	1.50	30	0.23	0.38	0.58	0.89	6.5	-
1.76	2.00	30	0.23	0.38	0.58	0.89	8.7	-
2.00	1.00	n/a	0.22	0.35	0.53	TBD	4.5	0.80
2.00	1.50	n/a	0.22	0.35	0.53	TBD	6.8	-
2.00	2.00	n/a	0.22	0.35	0.53	TBD	9.1	-
2.50	1.00	40	0.22	0.33	0.48	0.66	4.5	0.80
2.50	1.50	40	0.22	0.33	0.48	0.66	6.8	-

Note: NRC tested in accordance with ASTM C 423 (Type "A" Mounting). Thermal Conductivity measured per ASTM C 518.

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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