



Thermasheath[®]-3

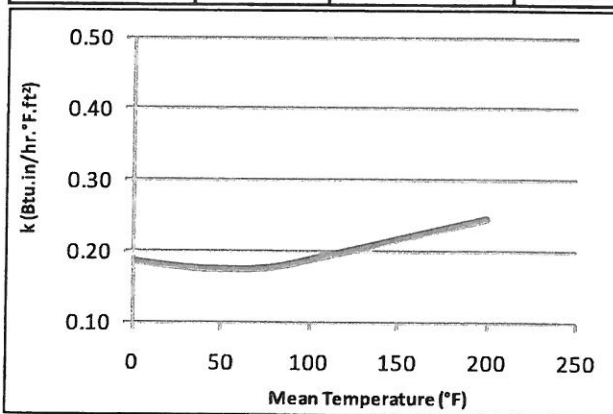
Insulation for Commercial / Industrial Applications

PRODUCT DESCRIPTION

Rmax Thermasheath-3 is an energy-efficient thermal insulation board composed of a closed-cell polyisocyanurate (polyiso) foam core bonded to reinforced aluminum foil facers on each side. Thermasheath-3 utilizes a CFC-, HCFC- and HFC-free blowing agent that has zero Ozone Depletion Potential (ODP) and negligible Global Warming Potential (GWP). This insulation is suitable for use in industrial specialty applications, including tank and vessel coverings. Thermasheath-3 meets ASTM C1289 Type I, Class 1.

THERMAL CONDUCTIVITY

English Units		Metric Units	
Mean Temp. (°F)	k (Btu.in./hr.°F.ft)	Mean Temp (°C)	λ (W/m.K)
0	0.186	-18	0.0268
39	0.176	4	0.0254
75	0.177	24	0.0255
109	0.194	43	0.0280
199	0.246	93	0.0355



Apparent thermal conductivity values are based on 1" specimens submitted for testing per ASTM C177. The material was conditioned according to PIMA Technical Bulletin No. 101. Actual values are subject to normal testing and manufacturing tolerances.

CONTACT INFORMATION

For additional product information, including the MSDS and instructions on the proper handling, storage and use of this insulation, please refer to our Sales Policy or visit our Web site at www.rmax.com/resources.asp. For technical and sales support, email rmax@rmax.com or call (800) 527-0890.

THERMAL PROPERTIES / PRODUCT DATA

"R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

Nominal Thickness	Thermal Resistance (R-Value) ¹		Thermal Resistivity (R/Thickness)	
	English Units (°F·ft²·hr/Btu)	Metric Units (K.m²/W)	R/Inch (°F·ft²·hr/Btu·in)	R/m (K.m/W)
1.00	6.0	1.06	6.00	41.7
1.50	9.6	1.69	6.40	44.4
2.00	13.1	2.31	6.55	45.5
2.50	16.7	2.94	6.68	46.3
3.00	20.3	3.57	6.77	46.9
3.50	23.9	4.21	6.83	47.4
4.00	27.4	4.83	6.85	47.5
4.50	31.0	5.46	6.89	47.8

¹Thermal values are determined by using ASTM C518 test method at 75°F mean temperature on material conditioned according to PIMA Technical Bulletin No. 101. NOTE: Thermasheath-3 is shipped in bundles that are approximately 48 inches high and wrapped in plastic for easy handling.

TYPICAL PHYSICAL PROPERTIES

Physical properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.

Property	Test Method	Results	
		English Units	Metric Units
Density, Overall, Nominal	ASTM D1622	2.0 lb/ft³	32 kg/m³
Compressive Strength ¹	ASTM D1621	20 psi	138 kPa
Flame Spread, Core ²	ASTM E84	75 or less	75 or less
Water Vapor Transmission	ASTM E96	< 0.3 perms	<17.2 ng/Pa.s.m²
Water Absorption	ASTM C209	< 1% Vol.	< 1% Vol.
Dimensional Stability	ASTM D2126, 7 days, 158°F, 98% rh	< 2% Linear Change	< 2% Linear Change
Service Temperatures		-40°F - +250°F	-40°C - +121°C

¹Also available in 25 psi (172 kPa) upon request.

²Flame spread numbers are shown for comparison purposes only and are not intended to represent product performance and related components under actual fire conditions.



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DISCLAIMERS: This document applies strictly to specialty applications, such as tank and vessel coverings. For building applications, refer to Thermasheath-3: Insulation for the Building Envelope for complete installation details and requirements. Thermasheath-3 is not a structural panel. DO NOT leave Thermasheath-3 exposed. Polyiso foam is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity and may contribute to flames spreading. A thermal barrier may be required. Local authorities should be consulted for specific governing codes and requirements. All Rmax products must be tarped, placed on skids and kept dry before and throughout construction. Rmax does not assume any responsibility or liability for the performance of any products other than those manufactured by Rmax. See Rmax "Sales Policy" for warranty conditions.