

Black Rubber Insulation Sheet Roll, Skin Two Sides

Specifications

A NBR/PVC based closed cell, flexible elastomeric foam insulation. It is environmentally-friendly as it is free of CFCs, HFCs, HCFCs, PBDEs, formaldehyde and fibers. An EPA registered antimicrobial agent is incorporated into the product providing additional protection against mold, fungal and bacterial growth.

Applications

Recommended for applications with service temperatures ranging from -297°F (-182°C) to +220°F (+104°C). For full adhesion applications (i.e. ductwork), the upper temperature limit is +200°F (+93°C). The product is used to retard heat gain and prevent condensation or frost formation on below-ambient applications, including utility and industrial process equipment, tanks, vessels, ducts and large OD pipes. It can be used with heat tracing tapes. It also retards heat loss from medium hot surfaces.

Materials

Elastomeric Foam. Rubber.

Certifications/Listings/Approvals

- ASTM C534 Type 2, Grade 1
- ASTM D1056-00-2B1
- New York City MEA 186-86-M Vol. V
- USDA Compliant
- CFIA Compliant
- RoHS Compliant
- UL 94-5V, V0 Flammability Classification (#E300774)
- ASTM E84 25/50-rated (to 2") - tested to UL 723, NFPA 255 and CAN/ULC S102-03
- FMVSS 302
- FAR 25.853
- NFPA No. 101 Class A Rating
- NFPA 90A, 90B
- MIL-P-15280, Form S
- R-8 (2") meets IECC requirements for Outdoor Ductwork
- UL GREENGUARD® Gold Certified
- Meets energy code requirements of ASHRAE 90.1 and 189.16

Job Name _____
 Location _____
 Engineer _____
 Contractor _____
 Tag _____ PO# _____



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INSULATION SHEET ⇄ TECHNICAL DATA			
Physical properties ▼		Insulation Sheet ▼	
Main Composition		Flame-retarded NBR/PVC-based elastomeric foam	
Thermal Conductivity (K) Btu-in/hr-Ft ² -°F (W/mK)		90°F (32°C) Mean Temp = 0.258 (0.0372) 75°F (24°C) Mean Temp = 0.245 (0.0353) 32°F (0°C) Mean Temp = 0.235 (0.0339)	ASTM C177
Density		3-6 lb/ft ³	ASTM D1667
Operating Temperature Range		-40°F (-40°C) to +220°F (104°C)	ASTM C534
Water Vapor Permeability (Dry Cup)		<0.01 perm-in	ASTM E96
Water Absorption (Volume Change)		0%	ASTM C209
Flame Spread / Smoke Development (up to 2" wall)		<25/50	ASTM E84
Flammability		Self-Extinguishing	ASTM D635
Dimensional Stability		<7% Linear Shrinkage	ASTM C534
Hot Surface Performance (250°F for 96 hours)		No Cracking or Delamination	ASTM C411
Ozone Resistance		Pass	ASTM D1171
Odor Emissions		No Objectionable Odor	ASTM C1304
Chemical/Solvent/Oil/Grease Resistance		Good	Compatibility Data Available on Request
Flexibility		Excellent Pass: Cold Crack Test at -40°F (-40°C)	ASTM C534 ASTM D1056
Mildew Growth Resistance/Air Erosion		Pass	UL 181, ASTM G21
Corrosion Risk		pH neutral: 6.6±0.04	DIN 1988
Leachable Chlorides		<0.05% water-soluble chloride ions	DIN 1988
UV / Weather Resistance ¹		Good	ASTM G90
Sound Transmission Class (1")		13	ASTM E90
[*] For applications below -40°F (-40°C), contact K-FLEX® technical support. ¹ Outdoor applications should be protected with an approved K-FLEX® coating or cladding for optimum performance.			

INSULATION SHEET ⇄ THICKNESS RECOMMENDATIONS - TO PREVENT CONDENSATION												
SERVICE TEMPERATURE	50°F (10°C)			35°F (2°C)			0°F (-18°C)			-20°F (-29°C)		
▼ Surface Size ▼	▼ Mild ▼	▼ Normal ▼	▼ Severe ▼	▼ Mild ▼	▼ Normal ▼	▼ Severe ▼	▼ Mild ▼	▼ Normal ▼	▼ Severe ▼	▼ Mild ▼	▼ Normal ▼	▼ Severe ▼
Flat Surface or Pipe ≥48"	1/8"	1/2"	3/4"	1/4"	3/4"	1-1/2"	1/2"	1"	2"	3/4"	1-1/2"	2-1/2"
Thickness listed for the specified ranges will prevent condensation on indoor piping under the defined design conditions. Normal: 85°F and 70% R.H. Mild: Most air conditioned spaces and arid climates: 80°F and 50% R.H. Severe: Areas where excessive moisture is introduced or in poorly ventilated areas where the temperature may be depressed below the ambient: 90°F and 80% R.H. Contact K-FLEX® technical support for additional information.												

INSULATION SHEET ⇄ SOUND ABSORPTION COEFFICIENTS AT FREQUENCY (HZ) (ASTM C423)							
▼ Thickness ▼	▼ 125 ▼	▼ 250 ▼	▼ 500 ▼	▼ 1000 ▼	▼ 2000 ▼	▼ 4000 ▼	▼ NRC ▼
1/2" (12mm)	0.03	0.02	0.06	0.10	0.22	0.27	0.10
1" (25mm)	0.00	0.07	0.13	0.59	0.20	-0.05	0.25
1-1/2" (38mm)	0.00	0.15	0.81	0.29	0.31	0.27	0.40
2" (50mm)	0.22	0.65	0.48	0.54	0.47	0.45	0.55

INSULATION SHEET ⇄ "R" VALUES (ALL SIZES ARE NOMINAL)					
▼ 3/8" ▼	▼ 1/2" ▼	▼ 3/4" ▼	▼ 1" ▼	▼ 1-1/2" ▼	▼ 2" ▼
1.5	2	3	4	6	8