

Black Rubber Insulation Sheet Roll, Adhesive Backed (PSA)

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 -40°F (-40°C) to +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, and ducts (for covering only). It also retards heat loss from medium hot surfaces.

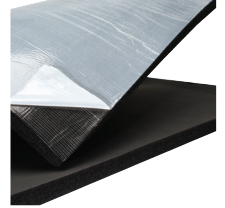
Materials

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 Flammability Classification (#E300774)
- ASTM E84 25/50-rated (to 2") - tested to UL 723, NFPA 255 and CAN/ULC S102-03
- NFPA No. 101 Class A Rating
- NFPA 90A, 90B
- R-8 (2") meets IECC requirements for Outdoor Ductwork
- UL GREENGUARD® Gold Certified
- Meets energy code requirements of ASHRAE 90.1 and 189.1

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



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PHYSICAL PROPERTIES		INSULATION SHEET WITH PSA	TEST METHODS
Main Composition		Flame-retarded NBR/PVC-based elastomeric foam	
Thermal Conductivity (K)	90°F (32°C) Mean Temp	0.258 (0.0372)	ASTM C177
Btu-in/hr-Ft2-°F (W/mK)	75°F (24°C) Mean Temp	0.245 (0.0353)	
	32°F (0°C) Mean Temp	0.235 (0.0339)	
Density		3-6 lb/ft³	ASTM D1667
Operating Temperature Range		-40°F (-40°C) TO +200°F (93°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
Pressure Sensitive Adhesive (PSA): Solvent-free, acrylic dispersion adhesive with high tack, high peel resistance (≥20 N / 25 mm per DIN EN 1939), high shear adhesion (500 g / 625 mm2 per DIN EN 1943), and resistance to humidity and aging. Adhesive: 0.07 mm thickness; Support: Scrim; Liner: Poly film release liner, moisture and tear resistant, easy release.			
Dimensional Stability		<7% Linear Shrinkage	ASTM C534
Hot Surface Performance (220°F)		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		Pass	QUV Chamber Test
Sound Transmission Class (1")		13	ASTM E90

¹ Outdoor applications should be protected with an approved coating or cladding.

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.

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	

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