

Rubber Insulation Roll

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

Specifications

Closed cell flexible elastomeric foam insulation rolls with high resistance to moisture vapor intrusion and low thermal conductivity. Available as S2S (skin-two-side). Sold in carton quantities only

Applications

For use on HVAC/R and industrial process ductwork, vessels, equipment and large ID piping (>8" IPS). For most indoor applications, no additional jacketing is required.

Materials

Rubber. Low VOC material

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
- 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 189.1

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RUBBER INSULATION ROLL ⇄ TECHNICAL DATA

Physical properties ▼		Rubber Ins Roll ▼	Test methods ▼
Thermal Conductivity (K)	90°F (32°C) Mean Temp	0.258 (0.0372)	ASTM C 177
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)	
Main Composition	Flame-retarded NBR/PVC-based elastomeric foam		
Density	3-6 lb/ft³		ASTM D 1667
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
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 Resistance¹	Good		ASTM G90
Sound Transmission Class (1")	13		ASTM E90

*For applications below -40°F (-40°C), contact us for support.
¹ Outdoor applications should be protected with an approved coating.

RUBBER INSULATION ROLL ⇄ 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.

RUBBER INSULATION ROLL ⇄ 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

RUBBER INSULATION ROLL ⇄ "R" VALUES PER SQUARE FOOT (ALL SIZES ARE NOMINAL)

3/8"	1/2"	3/4"	1"	1-1/2"	2"
1.5	2	3	4	6	8