

RUBBER INSULATION ROLL

- Closed cell flexible elastomeric foam insulation rolls
- 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
- High resistance to moisture vapor intrusion; low thermal conductivity
- Available as S2S (skin-two-side)
- CARTON QUANTITIES ONLY



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 - Ft ² - °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/ft ³			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 Resistance ¹	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.

SPECIFICATION COMPLIANCE

- ▶ 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

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	

