

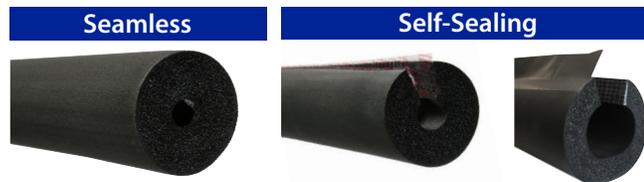
Rubber Pipe Insulation

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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, commercial, and industrial process piping and equipment. For most indoor applications, no additional jacketing is required.

Materials

Elastomeric foam. Rubber. Low VOC material

Certifications/Listings/Approvals

- ASTM C534 Type 1, 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
- FMRC Approval Guide: Chapter 14 Pipe Insulation
- NFPA NO. 101 Class A Rating
- NFPA 90A, 90B
- MIL-P-15280, Form T
- Meets Requirements of California ECB Title 24
- 4-1/8" UL GREENGUARD® Gold Certified
- Meets energy code requirements of ASHRAE 90.1 and 189.1

RUBBER PIPE INSULATION ⇄ TECHNICAL DATA			
Physical properties	Rubber Pipe Ins	Test methods	
Thermal Conductivity (K)	90°F (32°C) Mean Temp 0.258 (0.0372)		
BTU - in/hr - Ft ² - °F (W/mK)	75°F (24°C) Mean Temp 0.245 (0.0353)	ASTM C 177	
	32°F (0°C) Mean Temp 0.235 (0.0339)		
Density	3-6 lb/ft ³	ASTM D 1667	
Operating Temperature Range	-297°F* (-183°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	
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	Pass	QUV Chamber Test	
Sound Transmission Class (1")	13	ASTM E90	

*For applications below -40°F (-40°C), contact technical support.
 **Intermittent temperature "spikes" to 250°F (121°C)
¹ Outdoor applications should be protected with an approved coating or cladding.

RUBBER PIPE INSULATION ⇄ THICKNESS RECOMMENDATIONS - TO PREVENT CONDENSATION												
SERVICE TEMPERATURE	50°F (10°C)			35°F (2°C)			0°F (-18°C)			-20°F (-29°C)		
Pipe Size	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe
1/4" ID to 1-1/8" ID	3/8"	3/8"	3/4"	3/8"	1/2"	3/4"	1/2"	3/4"	1-1/2"	1/2"	1"	1-1/2"
1-3/8" ID to 3" IPS	3/8"	3/8"	3/4"	3/8"	3/4"	1"	1/2"	1"	1-1/2"	3/4"	1-1/2"	1-1/2"
4" IPS to 8" IPS	1/2"	1/2"	3/4"	1/2"	3/4"	1"	3/4"	1"	2"	3/4"	1-1/2"	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 PIPE INSULATION ⇄ PIPE "R" VALUES PER SQUARE FOOT (ALL SIZES ARE NOMINAL)						
Nominal insulation I.D.	3/8" WALL	1/2" WALL	3/4" WALL	1" WALL	1-1/2" WALL	2" WALL
1/4"	2.9	4.2	6.4	10.1	17.9	23.0
3/8"	2.7	3.6	5.6	8.5	14.6	20.4
1/2"	2.5	3.4	5.4	7.9	13.5	18.9
5/8"	2.5	3.3	5.4	7.5	12.8	17.8
3/4"	2.3	3.1	5.4	7.5	12.4	16.8
7/8"	2.3	3.2	5.4	7.2	11.6	16.1
1-1/8"	2.2	3.1	5.5	7.1	10.8	15.8
1-3/8"	2.2	3.2	5.3	7.3	10.2	14.9
1-5/8"	2.4	3.1	5.1	7.1	9.8	14.6
1-1/2" IPS	2.0	2.6	4.4	6.2	9.9	13.8
2-1/8"	2.3	3.0	4.9	6.6	9.2	13.6
2" IPS	2.3	2.9	4.8	6.5	9.0	13.3
2-1/2" IPS	2.3	3.0	4.6	6.3	8.6	12.6
2-5/8"	2.3	3.1	4.7	6.4	8.8	12.9
3-1/8"	2.3	3.0	4.6	6.2	8.5	12.4
3" IPS	2.3	3.2	4.6	6.1	8.3	12.2
3-5/8"	2.3	3.2	4.6	6.1	8.3	12.1
4-1/8"	2.3	3.1	4.6	6.0	8.1	11.7
4" IPS	2.2	3.2	4.6	5.5	8.0	11.6
5" IPS	-	3.0	4.5	5.7	7.7	11.1
6" IPS	-	3.0	4.4	5.6	7.5	10.9
8" IPS	-	2.9	4.2	5.3	7.2	-