Poly Pipe Insulation

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Job Name _____
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Specifications

Polyethylene-based closed cell, flexible foam insulation with a high resistance to moisture vapor intrusion. This insulation also has low thermal conductivity.
Sold in carton quantities only.

Applications

For use on hot or cold plumbing lines. For outdoor use, paint with a high quality exterior acrylic latex paint.

Materials

Polyethylene. Foam.

Certifications/Listings/ Approvals

- ASTM C1527 Type I Pipe, Type II Sheet (Specification for Extruded Preformed Flexible Cellular Polyolefin Thermal Insulation in Sheet and Tubular Form.)
- ASTM E84 25/50 rated (to 1") - tested according to UL 723. NFPA 255 NFPA 90A/B - Acceptable for plenum applications.
- UL 94 HF - Flammability Classification (#E300774)
- Greenguard Gold Certified
- Contains no halogens
- Fiber Free
- Non-dusting
- Tolerance of +.03 and -.06

Semi Slit

Self-Sealing

Self-Sealing Tees & Elbows

POLY PIPE INSULATION ⇦TECHNICAL DATA

Physical properties	POLY PIPE INS	Test methods	Required	Pass/Fail
Nominal Density, pcf	1.5 +/- 0.5	ASTM D 1622		
Specification		ASTM C 1427, Type I, Type II		
*Upper Use Limit, °F (°C)	200 (93)	ASTM C 411	200 (93)	Pass
Lower Use Limit, °F (°C)	-200 (-129)		-150 (-101)	Pass
Thermal Conductivity, Btu·in./hr·ft² °F (W/(m·K)) 75°F (24°C) Mean Temp 120°F (49°C) Mean Temp	 .27 (.039) .295 (.042)	ASTM C 177 OR C 518	 <0.35 (.050) <0.37 (.053)	 Pass Pass
Water Vapor Permeability	<0.05	ASTM E 96	0.05 max	Pass
Water Absorption Max %	<0.20	ASTM C 209	% by volume (0.20 max)	Pass
Linear Shrinkage at Max Use Temp (200°F)	-1.2%	ASTM C 1427	% change (2.0 max)	Pass
** Flame/Smoke Rating (max)* Up to and including 1" Thickness	25/50	ASTM E 84	25/50	Pass
Microbial Resistance	Excellent	ASTM G 21	No Growth	Pass
Fungi Resistance	Excellent	UL 181	No Growth	Pass
Odor Emission	None	ASTM C 1304	None	Pass
Corrosion Resistance (Steel, Copper, AL)	None	ASTM C 665	None	Pass
Ozone Resistance (50 mPa)	No Cracks	ASTM D 1171	No Cracks	Pass
VOC Content	< 0,22 mg/m3	CDPH Standard Method v 1.2	< 0,5 mg/m3	Pass

* Meets the requirements of NFPA 90A/90B when tested at 250°F (125°C)
** Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for the use in the selection of products

POLY 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
3/8" ID to 1-1/8 ID	3/8"	3/8"	3/4"	3/8"	1/2"	3/4"	1/2"	3/4"	–	1/2"	1"	–
1-3/8 ID to 4-1/2" ID	3/8"	3/8"	3/4"	3/8"	3/4"	1"	1/2"	1"	–	3/4"	–	–

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.

RANGE

Wall Thickness (nominal)	3/8", 1/2", 3/4", and 1" - (10, 13, 19 and 25 mm)
Inside Diameter, Tubular Form	3/8" - 4-1/2" ID - (10 mm ID to 114 mm ID)
Length of Sections, Tubular Form	6' (1.83m)

POLY PIPE INSULATION ⇦"R" VALUES

Nominal insulation I.D.	Copper tube size (nom. I.D. plumbing)	Copper tube size (O.D. HVAC/R)	IPS nominal	3/8"	1/2"	3/4"	1"
3/8"	1/4"	3/8"	1/8"	2.6	3.5	5.5	8.4
1/2"	3/8"	1/2"	1/4"	2.5	3.3	5.2	7.9
5/8"	1/2"	5/8"	3/8"	2.9	3.2	5.3	7.4
3/4"	5/8"	3/4"	1/2"	2.3	3.0	5.3	7.3
7/8"	3/4"	7/8"	–	2.2	3.1	5.3	7.0
1"	–	–	3/4"	2.2	3.1	5.2	7.2
1-1/8"	1"	1-1/8"	–	2.2	3.0	5.4	6.9
1-1/4"	1-1/8"	1-1/4"	–	2.2	3.2	5.3	6.8
1-3/8"	1-1/4"	1-3/8"	1"	2.1	3.1	5.1	7.2
1-5/8"	1-1/2"	1-5/8"	1-1/4"	2.4	3.0	5.0	6.9
2"	–	–	1-1/2"	2.3	2.9	4.8	6.6
2-1/8"	2"	2-1/8"	–	2.3	2.9	4.8	6.5
2-3/8"	–	–	2"	2.3	2.9	4.7	6.4
2-5/8"	2-1/2"	2-5/8"	–	2.2	3.0	4.6	6.2
2-7/8"	–	–	2-1/2"	2.2	3.0	4.5	6.1
3-1/8"	3"	3-1/8"	–	2.2	3.0	4.5	6.1
3-1/2"	–	–	3"	2.3	3.0	4.5	6.0
3-5/8"	3-1/2"	3-5/8"	–	2.3	3.1	4.5	6.0
4-1/8"	4"	4-1/8"	–	2.2	3.1	4.5	5.8
4-1/2"	–	–	4"	2.3	3.1	4.6	5.9

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