

AEROFOAM[®] -XLPE



Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam

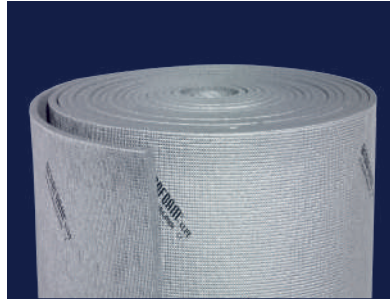
ASTM E84

CLASS 0

 www.aerofoamusa.com

AEROFOAM® XLPE TUBES, ROLLS & SHEETS













Aerofoam® XLPE rolls, sheets and tubular shapes are made of cross-linked closed cell polyolefin thermal insulation foam with factory applied aluminum foil for mechanical protection designed to control condensation that cause mold and prevent energy losses in cooling and heating systems.



Aerofoam® XLPE is suitable for such applications like duct and pipe insulation for air conditioning, cold water, chilled water, hot water and refrigeration as well as within OEM applications.

Designed for indoor and outdoor conditions, however outdoor applications need additional protection against weather conditions and UV radiation.

FEATURES

- | | |
|--|--|
|  Closed cell structure |  Resistant to bacteria |
|  Prevent condensation |  High mechanical strength |
|  Excellent thermal efficiency |  Easy to install |
|  Suitable for low temperature applications |  Suitable for coastal area applications |
|  Environment friendly foam |  Ozone Resistant |
|  Resistant to mold & mildew growth |  Suitable for cooling & heating systems |

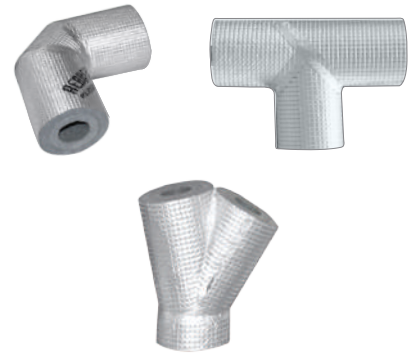
APPLICATIONS



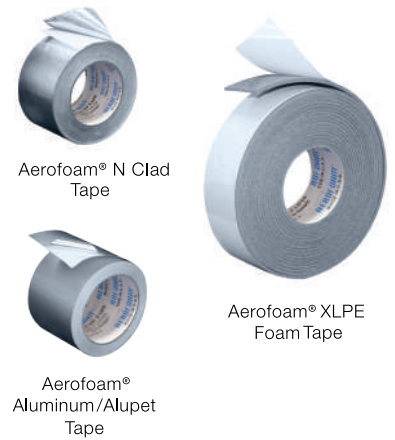
Different colors of foil facer are available upon request (e.g. black, blue etc.). Contact Aerofoam® Local Representative for more details.

AERO-FITTINGS

Pre-fabricated Aero-fittings are made in different shapes such as 45 and 90 degrees Elbows, Tees and Y-Branches.



AEROFOAM® TAPES



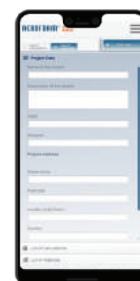
AEROFOAM® XLPE GLUE



AEROCALC

AEROCALC software is an excellent tool for calculating the optimal thicknesses of insulation. Available as **Desktop**, **iOS** and **Android** applications.

Visit our website: aerofoamusa.com



Scan QR code to download desktop app



AEROFOAM® XLPE TUBES - R-VALUES

Inner Diameter	Thermal Insulation Thickness								
	Inch	3/8"	1/2"	5/8"	3/4"	1"	1-1/5"	1-3/5"	2"
1/4"	2.8	4	5.4	6.8	9.9	12.5	18.1	24.1	30.4
3/8"	2.5	3.6	4.8	6	8.8	11.1	16.1	21.5	27.2
1/2"	2.3	3.5	4.4	5.5	8	10.2	14.8	19.8	25.1
5/8"	2.2	3.1	4.1	5.2	7.5	9.5	13.9	18.5	23.1
	2.1	3	3.9	4.9	7.1	9	13.1	17.5	21.9
3/4"	2.1	2.9	3.9	4.9	7	8.9	12.9	17.2	21.6
7/8"	2	2.9	3.8	4.7	6.8	8.6	12.5	16.7	21
1"	2	2.8	3.6	4.6	6.6	8.3	12.1	16.1	20.2
1-1/8"	1.9	2.7	3.5	4.4	6.4	8.1	11.6	15.5	19.5
1-1/4"	1.9	2.6	3.5	4.3	6.2	7.8	11.3	15.1	18.8
1-3/8"	1.9	2.6	3.4	4.2	6.1	7.6	11	14.7	18.3
1-1/2"	1.8	2.5	3.3	4.1	5.8	7.3	10.5	14	17.6
1-5/8"	1.8	2.5	3.3	1	5.8	7.3	10.5	14	17.2
2"	1.8	2.4	3.2	3.9	5.5	6.9	9.9	13.2	16.5
2-3/8"	1.7	2.4	3.1	3.8	5.3	6.7	9.5	12.6	15.7
3"	1.7	2.3	3	3.6	5.1	6.3	9	11.9	14.8
	1.7	2.3	2.9	3.6	5.1	6.3	8.9	11.8	14.7
3-1/2"	1.7	2.3	2.9	3.6	5	6.2	8.7	11.4	14.1
4-1/4"	1.6	2.2	2.8	3.5	4.8	6	8.4	10.9	13.5
4-1/2"	1.6	2.2	2.8	3.5	4.8	5.9	8.3	10.8	13.3
5"	1.6	2.2	2.8	3.4	4.7	5.8	8.1	10.6	13.1
	1.6	2.2	2.8	3.4	4.6	5.7	8	10.3	12.8
	1.6	2.1	2.7	3.3	4.6	5.6	7.8	10.1	12.5
6"	1.6	2.2	2.7	3.3	4.6	5.7	7.9	10.2	12.4
8"	1.6	2.1	2.7	3.3	4.5	5.5	7.5	9.7	11.8
10"	1.6	2.1	2.7	3.2	4.4	5.3	7.3	9.4	11.4
12"	1.5	2.1	2.6	3.2	4.3	5.3	7.2	9.2	11.1
16"	1.5	2.1	2.6	3.1	4.2	5.1	7	8.9	11.4
18"	1.5	2.1	2.6	3.1	4.2	5.1	6.9	8.8	11.1

AEROFOAM® XLPE SHEETS & ROLLS - R-VALUES

Thickness	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1-3/8"	1-1/2"	2"
R-Value	0.5	1	1.5	2	2.5	3	4	5.5	6	8

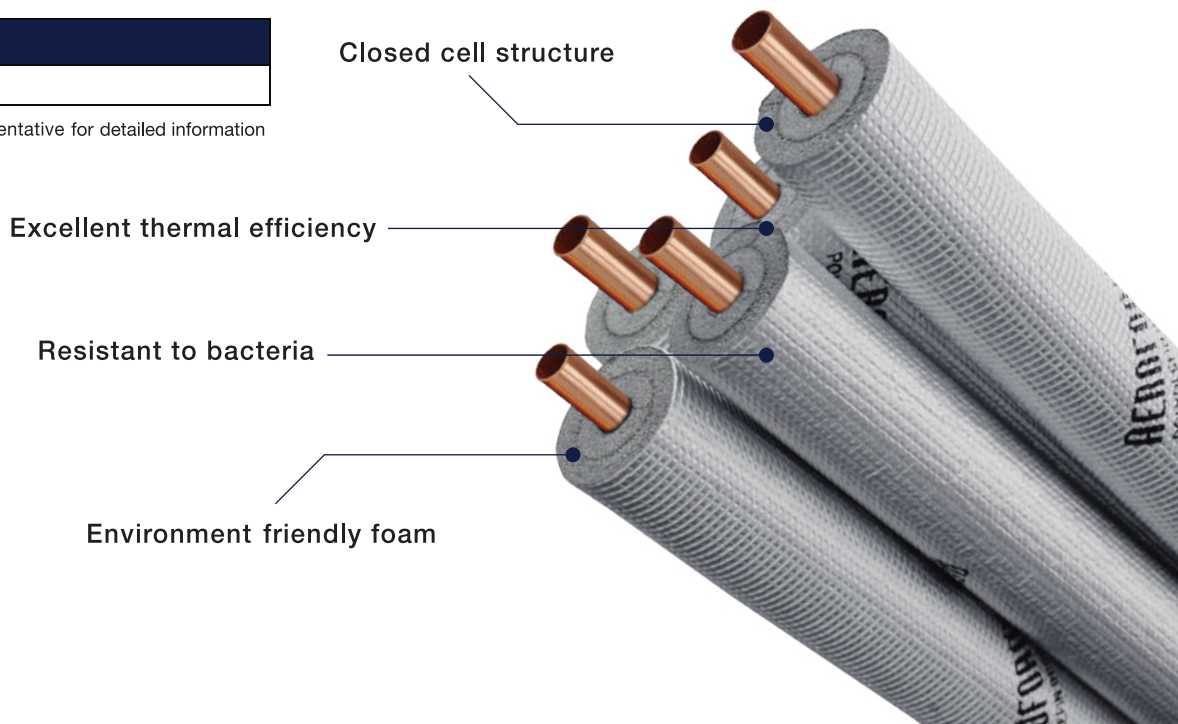
Note: These specifications are based on the measurement methods employed by Hira Industries LLC. Other methods may not result in the same values and cannot be used to determine if the product is within the given tolerance.

SIZE AVAILABILITY

Tubes	
ID	Thickness
1/4" to 5"	3/8" to 5/8"
1/4" to 28"	3/4" to 1-1/2"
1/2" to 28"	2" to 2-3/8"

Sheets & Rolls	
Thickness	1/8" to 2"

Please contact Aerofoam® Local Representative for detailed information about sizes with different facings.



TECHNICAL DATA

Description: Aerofoam® XLPE is a light or dark grey, cross-linked closed-cell polyolefin thermal insulation foam with factory applied aluminum foil for mechanical protection, mainly designed to control condensation and energy losses.

Property	Value/ Assessment	Tested acc. to:
Thermal conductivity At 75 °F At 95 °F	0.24 BTU-in/hr-ft ² 0.25 BTU-in/hr-ft ²	ASTM C518
Temperature range Max. line temperature Min. line temperature <i>Aerofoam® Technical Team should be consulted for applications with temperature below -40 °F.</i>	+220 °F (+176 °F with PSA*) -112 °F (-22 °F with PSA*)	DIN EN 14706 ASTM C411
Density of foam core	1.56 lbs/ft ³	
Water vapor diffusion resistance factor	μ>54700	BS EN 12086
Water vapor permeance	<0.01 perm-inch	ASTM E96
Water absorption	0.000018 oz/in ²	JIS K6767
Reaction to fire	FSI<25, SDI<50	ASTM E84
	Class 0	BS 476 part 6&7
	Ignitability Index 0 Spread of Flame Index 0 Heat Evolved Index 0 Smoke Developed Index 1	AS/NZ 1530.3
Smoke and toxicity Smoke toxicity levels Toxic smoke	Passed Comply	IMO MSC 61(67); A.1, P.2 & P.5 BS 6853
Resistance to corrosion	Excellent	ASTM B117
Chemical analysis (Leachable ions)	Very low	ASTM C871
Compression set	35.77% (for 1") 34.22% (for 1-1/4")	ASTM D3574
Resistance to fungi	Zero growth	ASTM G21
Resistance to bacteria	Zero growth	ISO 22196
VOC evaluation Emission Contents	<0.5 mg/m ³ Comply	CDPH V1.2/US EPA methods TO17 CDPH V1.2/US EPA methods TO17
Environment friendly Ozone Depletion Potential Global Warming Potential CFC, HCFC, dust, fibers & asbestos	0 <5 Free	
Storage life <i>Can be stored for 24 months (12 months with PSA*) from manufacturing date in a dry, clean, dust free room at normal humidity and ambient temperature.</i>		
Note: All outdoor applications of Aerofoam® XLPE need to be protected by Aerofoam® approved coating or weather resistant cladding. It is recommended to use Aerofoam® XLPE N Clad for all outdoor applications.		

*PSA - Pressure Sensitive Adhesive

Disclaimer: All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Hira Industries L.L.C. does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Hira Industries L.L.C. also does not assume any liability towards any person resulting from the use of said data or technical information. Hira Industries L.L.C. reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.