



Thermapipe

TUBERÍA PREAISLADA



AEROFOAM[®]



Cross Linked Polyolefin Foam



www.thermapipe.com.mx

Technical data sheet for AEROFOAM[®] XLPE

MATERIAL:

AEROFOAM* XLPE is cross-linked closed cell polyolefin foam. Available in sheets, rolls & tube forms for thermal insulation and protection against condensation.

The Aerofoam* XLPE represents no health hazards - no CFCs or HCFCs were used in their production and they have very low VOV level. Aerofoam* XLPE considered environmental friendly products with low ozone depletion (ODP) or global warming potential (GWP) and comply with the LEED requirements.

APPLICATIONS:

Insulation/protection for pipes, air ducts, vessels, (incl. elbows, fittings, flangers, etc.) and process equipment to prevent condensation, save energy and block sound propagation.



PHYSICAL PROPERTIES

Property		Value/Assessment	Standard
Density		2-4-6 lb/ft (Foam core only)	
Thermal conductivity (K) Btu-in/hr-Ft ² -F(W/m K)	77°F(24°C)	0.23(0.034)	ASTM C518
Water vapor permanence (perms)		Zero	ASTM E96
Water absorption (% by volume)		0.05	BS EN 12087:1997
UV resistance		Excellent	ASTM G155
Resistance to corrosion		Excellent	ASTM B117
Compression set		35.77% (for 25mm) 34.22% (for 32mm)	ASTM D3574
Resistance to fungi		No growth	ASTM G21:2009
Resistance to bacteria		No growth	ISO 22196:2007
Chemical resistance		Very good	ASTM C871
Emission (VOC level)		< 4 µg/m ² /hr	ASTM D5116
Environment friendly Ozone resistance; Ozone depletion potential; Global Warming Potential; CFC & HCFC, dust, fibres & asbestos		Excellent; Zero; <5; Free	

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BS 476 part 6&7	Class 'O'
ASTM E84	Compliance with NFPA 90A & 90B Flame spread index (FSI) 15 Smoke development index (SDI) 30
ASTM C411	Compliance with NFPA 90A & 90B
EN45545-2:2013	Compliance with R1HL3
EN 12501-1	B-s1, d0
ISO 5659-2 Part 2	Smoke density (Ds < 200)
IMO Resolution MSC 61(67),1996	Complies
FMVSS302	Complies
BS6853:1999	Smoke toxicity complies

*Note: for the application above 220°F contact Aerofoam technical support.

SOUND PROPERTIES

ISO354&ISO11654	NRC 0.35 (250 HZ to 2000HZ) & NRC 0.51 (1000 HZ)
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*Note: Aerofoam XLPE is generally resistant UV radiation, however, we must use additional cladding in all outdoor application (metal or mastic) from Aerofoam range of products we recommend Aerofoam N clad with integrated durable foil.

SIZE AVILABILITY

Range of sheets thickness: 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2" & 2"

Range of pipe thickness 3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2" & 2"

Range of pipe diameter 1/2" to 24"

*Note: Tolerance for sheets and tubes: +/- 1/16"; Length: +/- 0.2 feet;

tubes with <6" pipe OD is 5 ft long and tubes with >6" pipe OD is 4ft long. Thickness +/- 1/16" and length +/- 0.1 ft

R VALUES SIZE WISE

Thickness	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
R Value	0.51	0.79	1.65	1.93	2.44	3.24	4.03	4.88	6.47	8.12

Disclaimer

This information on Hira Industries products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

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PACKING DETAILS AEROFOAM® POLYOLEFIN TUBES

Copper Pipe (inch)	Thickness							
	3/8"	psc/bg	1/2"	psc/bg	5/8"	psc/bg	3/4"	psc/bg
1/2"	AFMT-TPFN-2210	133	AFMT-TPFN-2212	111	AFMT-TPFN-2215	87	AFMT-TPFN-2220	61
3/4"	AFMT-TPFN-2810	102	AFMT-TPFN-2812	87	AFMT-TPFN-2815	70	AFMT-TPFN-2820	51
1"	AFMT-TPFN-3510	77	AFMT-TPFN-3512	67	AFMT-TPFN-3515	55	AFMT-TPFN-3520	42
1-1/4"	AFMT-TPFN-4310	59	AFMT-TPFN-4312	52	AFMT-TPFN-4315	44	AFMT-TPFN-4320	34
1/2"	AFMT-TPFN-5010	48	AFMT-TPFN-5012	43	AFMT-TPFN-5015	37	AFMT-TPFN-5020	29
2"	AFMT-TPFN-6010	37	AFMT-TPFN-6012	33	AFMT-TPFN-6015	29	AFMT-TPFN-6020	23
2-1/2"			AFMT-TPFN-7712	23	AFMT-TPFN-7715	20	AFMT-TPFN-7720	17
3"					AFMT-TPFN-9015	16	AFMT-TPFN-9020	14
3-1/2"					AFMT-TPFN-10215	13	AFMT-TPFN-10220	12
4"					AFMT-TPFN-11515	11	AFMT-TPFN-11520	10
5"							AFMT-TPFN-14020	7
6"							AFMT-TPFN-16820	5
8"							AFMT-TPFN-22020	3
10"							AFMT-TPFN-27320	2
12"							AFMT-TPFN-32320	2
14"							AFMT-TPFN-35620	1
16"							AFMT-TPFN-40620	1
18"							AFMT-TPFN-45720	1

Copper Pipe (inch)	Thickness							
	1"	psc/bg	1-1/4"	psc/bg	1-1/2"	psc/bg	2"	psc/bg
1/2"	AFMT-TPFN-2225	45	AFMT-TPFN-2230	35	AFMT-TPFN-2240	23		
3/4"	AFMT-TPFN-2825	39	AFMT-TPFN-2830	30	AFMT-TPFN-2840	20		
1"	AFMT-TPFN-3525	32	AFMT-TPFN-3530	26	AFMT-TPFN-3540	18	AFMT-TPFN-3550	13
1-1/4"	AFMT-TPFN-4325	27	AFMT-TPFN-4330	22	AFMT-TPFN-4340	15	AFMT-TPFN-4350	11
1/2"	AFMT-TPFN-5025	23	AFMT-TPFN-5030	19	AFMT-TPFN-5040	14	AFMT-TPFN-5050	10
2"	AFMT-TPFN-6025	19	AFMT-TPFN-6030	16	AFMT-TPFN-6040	12	AFMT-TPFN-6050	9
2-1/2"	AFMT-TPFN-7725	15	AFMT-TPFN-7730	12	AFMT-TPFN-7740	10	AFMT-TPFN-7750	7
3"	AFMT-TPFN-9025	12	AFMT-TPFN-9030	10	AFMT-TPFN-9040	8	AFMT-TPFN-9050	6
3-1/2"	AFMT-TPFN-10225	10	AFMT-TPFN-10230	9	AFMT-TPFN-10240	7	AFMT-TPFN-10250	6
4"	AFMT-TPFN-11525	9	AFMT-TPFN-11530	8	AFMT-TPFN-11540	6	AFMT-TPFN-11550	5
5"	AFMT-TPFN-14025	6	AFMT-TPFN-14030	6	AFMT-TPFN-14040	5	AFMT-TPFN-14050	4
6"	AFMT-TPFN-16825	5	AFMT-TPFN-16830	5	AFMT-TPFN-16840	4	AFMT-TPFN-16850	3
8"	AFMT-TPFN-22025	3	AFMT-TPFN-22030	3	AFMT-TPFN-22040	3	AFMT-TPFN-22050	2
10"	AFMT-TPFN-27325	2	AFMT-TPFN-27330	2	AFMT-TPFN-27340	2	AFMT-TPFN-27350	2
12"	AFMT-TPFN-32325	2	AFMT-TPFN-32330	2	AFMT-TPFN-32340	1	AFMT-TPFN-32350	1
14"	AFMT-TPFN-35625	1	AFMT-TPFN-35630	1	AFMT-TPFN-35640	1	AFMT-TPFN-35650	1
16"	AFMT-TPFN-40625	1	AFMT-TPFN-40630	1	AFMT-TPFN-40640	1	AFMT-TPFN-40650	1
18"	AFMT-TPFN-45725	1	AFMT-TPFN-45730	1	AFMT-TPFN-45740	1	AFMT-TPFN-45750	1

Polyolefin Tube Length:

Polyolefin Tubes with <6" Pipe OD is 5 ft long and Polyolefin Tubes with >6" Pipe OD is 4 ft long

Tolerance in thickness: $\pm 1/16"$ and Tolerance in Length ± 0.1 feet

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PACKING DETAILS

AEROFOAM® POLYOLEFIN ROLLS AND SHEETS

Size			Thickness		
Inch	Size	Total ft ²	XLPE	XLPE SA	XLPE AL
1/8"	4ft x 65ft	260	AFMR-TNNF-3	AFMR-TNAF-3	AFMR-TPFNF-3
1/4"	4ft x 65ft	260	AFMR-TNNF-5	AFMR-TNAF-5	AFMR-TPFNF-5
3/8"	4ft x 65ft	260	AFMR-TNNF-10	AFMR-TNAF-10	AFMR-TPFNF-10
1/2"	4ft x 65ft	260	AFMR-TNNF-12	AFMR-TNAF-12	AFMR-TPFNF-12
5/8"	4ft x 65ft	260	AFMR-TNNF-15	AFMR-TNAF-15	AFMR-TPFNF-15
3/4"	4ft x 65ft	260	AFMR-TNNF-20	AFMR-TNAF-20	AFMR-TPFNF-20
1"	4ft x 8ft	32	AFMR-TNNF-25	AFMR-TNAF-25	AFMR-TPFNF-25
1-1/4"	4ft x 8ft	32	AFMR-TNNF-30	AFMR-TNAF-30	AFMR-TPFNF-30
1-1/2"	4ft x 8ft	32	AFMR-TNNF-40	AFMR-TNAF-40	AFMR-TPFNF-40
2"	4ft x 8ft	32	AFMR-TNNF-50	AFMR-TNAF-50	AFMR-TPFNF-50

Size			Thickness	
Inch	Size	Total ft ²	XLPE SA-AL	XLPE SA RAL
1/8"	4ft x 65ft	260	AFMR-TPFAF-3	
1/4"	4ft x 65ft	260	AFMR-TPFAF-5	
3/8"	4ft x 65ft	260	AFMR-TPFAF-10	
1/2"	4ft x 65ft	260	AFMR-TPFAF-12	AFMR-TRFAF-12
5/8"	4ft x 65ft	260	AFMR-TPFAF-15	AFMR-TRFAF-15
3/4"	4ft x 65ft	260	AFMR-TPFAF-20	AFMR-TRFAF-20
1"	4ft x 8ft	32	AFMR-TPFAF-25	AFMR-TRFAF-25
1-1/4"	4ft x 8ft	32	AFMR-TPFAF-30	
1-1/2"	4ft x 8ft	32	AFMR-TPFAF-40	
2"	4ft x 8ft	32	AFMR-TPFAF-50	

Tolerance: Thickness: $\pm 1/16"$; Length: $\pm 0.2ft$

ACCESORIES	
NAME	SIZE
Aerofoam® glue	0.66 gallon
Aerofoam® XLPE foam tape	2"width x 30ft length
Alupet tape	2"width x 90ft length



Thickness (Inch)	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
R value at 75 °F ((h ft ² °F/btu)	0.51	0.79	1.65	1.93	2.44	3.24	4.03	4.88	6.47	8.12
U value at 75 °F ((btu / h ft ² °F)	1.96	1.27	0.61	0.52	0.41	0.31	0.25	0.20	0.15	0.12

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TEST CERTIFICATES

Sr. No.	Test Standard	Description
1	ASTM E84	Fire Reaction Test
2	ASTM C411	Hot Surface Measurement
3	DIN EN 12501-1	Reaction to fire Performance
4	ASTM E96	Water Vapour Permability
5	BS EN 12087	Water Absorption
6	BS EN 12086	μ Value
7	ASTM C518	Thermal Conductivity
8	BS 6853	Smoke Emission
9	EN 45545-2	Smoke & Toxicity
10	IMO MSC 61 (67)	Surface Flammability
11	ISO 5660-1:2002	Heat Release rate
12	DIN EN 13468	Sodium, Silicate & Chloride
13	BS 476 Part 6	Class 0
14	BS 476 Part 7	Class 1
15	FMVSS 302	Flammability Test for Automobiles
16	ASTM D5116	VOC Level
17	ISO 22196	Antimicrobial Resistance
18	ASTM G21	Antifugal Resistance
19	CFC Free	
20	ISO 354	Sound Absorption
21	OPD & GWP Values	
22	DIN EN 14706	Temperature Range
23	ASTM D3574	Compression Set
24	ASTM C871	Chemical Analysis
25	Weathering Test	
26	ASTM B117	Resistance to Corrosion
27	ASTM G155	UV Resistance

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