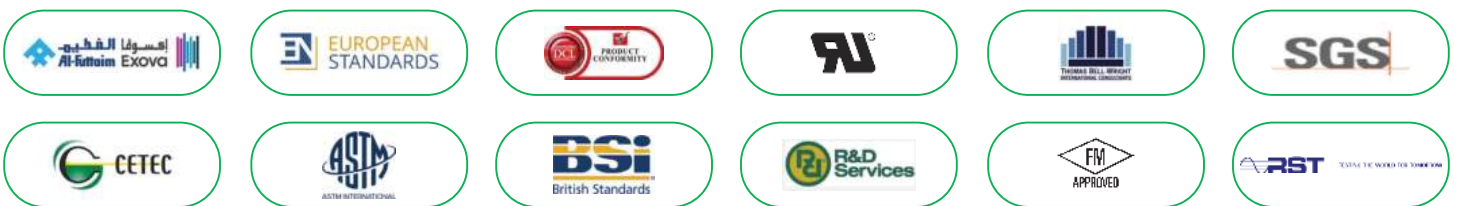


Aerolam XLPE



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Aerolam XLPE is a versatile material that can be used in a variety of applications. Chemically cross-linked closed cell polyolefin foam insulation is specially designed for the **HVAC segment, under deck, acoustic, duct and pipe insulation**. Aerolam XLPE is manufactured using world class manufacturing equipment and facilities, in line with the best international standards. It is designed to conform to the highest standards for fire safety, including Class '1' for surface spread of flame characteristics and Class 'O' for fire propagation. Additionally, Aerolam XLPE insulation is dust-free and easy to handle, making it user-friendly and easy to install.

Aerolam XLPE Technical Data

Material

Aerolam XLPE is chemically cross-linked closed cell polyolefin foam with or without facing material and acrylic pressure sensitive adhesive backing

Physical Properties

Parameter	Standard	Value
Density	ASTM D3575	30 KG/M3(+/-5)
Operating Temperature range	Internal	-20 Deg C to 110 Deg C (No Adhesive)
Thermal Conductivity	IS 3346 or ASTM C518	@ 0 Deg C 0.0318 w/mk @ 23 Deg C 0.0329 w/mk @ 46 Deg C 0.0382 w/mk
Water Vapor Permeability	EN 12086	2.07 x 10 ⁻¹⁵ Kg/Pa.s.m
Water Vapor Permeance	EN 12086	1.62 x 10 ⁻⁴ g/MN.s
Water Vapor Resistance Factor (μ) - mu	EN 12086	97,900
Water Absorption by Volume	JIS K6767	0.00056 mg/m2
Resistance to Fungi	ASTM G21	Zero Growth
Resistance to Bacteria	ASTM E2180	No Growth
CFC & HCFC Free	USEPA 8260 B	Comply
UV Resistance	ASTM G155	Excellent
Accelerated Weathering Test	ISO 4892	Excellent
VOC Level (Green Star Rating)	ASTM D5116	0.018 mg/m2/hr
ROHS	IEC 62321	Comply
Resistance to Chemical	ASTM C543	Very Good
Sound Absorption	ISO 354	0.25 NRC
Sound Transmission Class	ASTM E490/413	31 STC



Fire & Smoke Properties

Parameter	Standard	Value
Class O	BS 476 Part 6 & 7	Comply
Reaction to Fire (NFPA 90A & B)	ASTM E84	FLAME Spread Index <25 Smoke Development Index <50
Hot Surface Performance (NFPA 90A & B)	ASTM C411	Comply
European Railway Standard for Fire & Smoke	EN 45545	Comply to R1HL3 Requirement
Fire Classification of Construction Products	EN 13501	Comply to B-s1 d0
Smoke Density	ISO 5659-2	Comply
Deterioration of visibility due to smoke	ULC 564	Class A
Horizontal Burning Test	UL-94	Approved with HF-1 Class (File No: E 504824)
FM Approval	FM 4924	*COC Approval Identification:3063893
Storage Life: Must be stored in clean, dry room at normal RH(50%-70%) and ambient temperature (0 Deg C to 40 Deg C)	6 Month shelf life for Self-Adhesive rolls/sheets considering date of invoice. *FM approved products are available on special request. External Cladding required for for all outdoor applications. Please refer Aerolam installation guideline, storage guideline	

Disclaimer: The above information is given in good faith and is based on our current knowledge and information. All the values presented based on type test certificate from reputed laboratories This however, cannot be considered as guarantee and are request to make their own experiments and confirm before used.



AEROLAM XLPE Tubes Product Range

Pipe Size In Inch (in mm)	Insulation ID (mm)	Thickness of Insulation											
		9 mm	13 mm	15 mm	19 mm	25 mm	32 mm	40 mm	50 mm	60 mm	75 mm	100 mm	
	6	6/9	6/13	6/15	6/19	6/25	6/32	6/40					
	9	9/9	9/13	9/15	9/19	9/25	9/32	9/40					
	12	12/9	12/13	12/15	12/19	12/25	12/32	12/40					
	16	16/9	16/13	16/15	16/19	16/25	16/32	16/40					
	19	19/9	19/13	19/15	19/19	19/25	19/32	19/40					
1/2" (13)	22	22/9	22/13	22/15	22/19	22/25	22/32	22/40	22/50				
	25	25/9	25/13	25/15	25/19	25/25	25/32	25/40	25/50				
3/4" (19)	28	28/9	28/13	28/15	28/19	28/25	28/32	28/40	28/50				
	32	32/9	32/13	32/15	32/19	32/25	32/32	32/40	32/50	32/60			
1" (25)	35	35/9	35/13	35/15	35/19	35/25	35/32	35/40	35/50	35/60			
	38	38/9	38/13	38/15	38/19	38/25	38/32	38/40	38/50	38/60			
	40	40/9	40/13	40/15	40/19	40/25	40/32	40/40	40/50	40/60			
1 1/4" (32)	43	43/9	43/13	43/15	43/19	43/25	43/32	43/40	43/50	43/60			
1 1/5" (40)	50	50/9	50/13	50/15	50/19	50/25	50/32	50/40	50/50	50/60			
	54	54/9	54/13	54/15	54/19	54/25	54/32	54/40	54/50	54/60			
2" (50)	60	60/9	60/13	60/15	60/19	60/25	60/32	60/40	60/50	60/60			
	64	64/9	64/13	64/15	64/19	64/25	64/32	64/40	64/50	64/60			
2 1/2" (65)	77	77/9	77/13	77/15	77/19	77/25	77/32	77/40	77/50	77/60			
3" (80)	90	90/9	90/13	90/15	90/19	90/25	90/32	90/40	90/50	90/60			
	102	102/9	102/13	102/15	102/19	102/25	102/32	102/40	102/50	102/60			
	110	110/9	110/13	110/15	110/19	110/25	110/32	110/40	110/50	110/60			
4" (100)	115	115/9	115/13	115/15	115/19	115/25	115/32	115/40	115/50	115/60			
	125	125/9	125/13	125/15	125/19	125/25	125/32	125/40	125/50	125/60			
5" (125)	140			140/15	140/19	140/25	140/32	140/40	140/50	140/60			
	160	Type of facing			160/19	160/25	160/32	160/40	160/50	160/60	160/75		
6" (150)	166	Alupet, Aeroclad Glass Cloth			166/19	166/25	166/32	166/40	166/50	166/60	166/75		
8" (200)	220				220/19	220/25	220/32	220/40	220/50	220/60	220/75	220/100	
10" (250)	273				273/19	273/25	273/32	273/40	273/50	273/60	273/75	273/100	
12" (300)	323				323/19	323/25	323/32	323/40	323/50	323/60	323/75	323/100	
14" (350)	356				356/19	356/25	356/32	356/40	356/50	356/60	356/75	356/100	
16" (400)	406				406/19	406/25	406/32	406/40	406/50	406/60	406/75	406/100	
18" (450)	457				457/19	457/25	457/32	457/40	457/50	457/60	457/75	457/100	

Remarks:

- Standard Length: 1.5 meters <220 mm ID and 1.2 meters > 220 mm ID.
- Tubes without facing and other diameters up to 48" can be made as special request.
- Any special diameter pipe (metal or plastic) requires a sample from the site before production.
- We always require pipe (metal or plastic) Outer diameter which is our insulation ID at the time of placing an order.
- Dimensional Product specification available upon special request.
- Customized sizes/Products are available upon request.

Nominal Tolerances:

Thickness: +/-10% maximum | Insulation ID: +/-5% maximum | Length: +/-30 mm

Aerolam XLPE Rolls and Sheets Product Range

Rolls			
Thickness (mm)	Width (mtr)	Length (mtr)	Type of facing
12	1.2	As per standard	Alupet/Aeroclad/ Glass cloth/ Self-Adhesive
13	1.2		
15	1.2		
19	1.2		
25	1.2		
Sheets			
30	1.2m	2	Alupet/Aeroclad/ Glass cloth/ Self-Adhesive
32	1.2m	2	
40	1.2m	2	
50	1.2m	2	
75	1.2m	2	
100	1.2m	2	
140	1.2m	2	



Remarks:

- All the above specifications are for reference only.
- Joint may present in the Roll up to 30 meter length.
- Colour foam can be available on special request.
- Rolls/Sheets/Tubes are having minimum order quantity.
- Dimensional Product specification available upon special request.
- Customized sizes/Products are available upon request.

Nominal Tolerances:

Thickness: +/-10% maximum | Width: +20/-5 mm | Roll Length: +0.5m/-0.2m



ACOUSTIC INSULATION :

Aerolam XLPE (Crosslinked Polyethylene) Acoustic is a semi open cell foam with or without self-adhesive and used as a duct liner.

Also it can be used in Fan, Compressor Housing and Pump/Engine Casing.



TECHNICAL DATA :

XLPE Foam Properties:

Thermal Conductivity	: 0.0329 W/m·K at 23° C	as per ASTM C518 standard
Density (XLPE Foam only)	: 30 kg/m ³ (+/-5)	
Water Vapour Permeability	: Almost 0.00 permeability	as per ASTM E96 standard
Water Absorption	: 0.2% by volume	as per ASTM C209
Fire Resistance	: Class O	as per BS 476 Part 7 (Surface Spread of Flame) and Part 6 (Fire Propagation)
Working Temperature	: from -40° C to 105° C	as per Accredited Laboratory
Compression Strength	: @ 25% 0.44 Kg/cm ²	as per ASTM D3575
VOC Level	: 0.018 mg/m ² /hr	as per ASTM D5116
CFC HCFC Free	: Pass	as per USEPA 8260 B
Antifungal	: Yes	as per ASTM G21
Antimicrobial	: Yes	as per ISO 22196
Environmental Concerns	: ODP = 0	GWP < 5

ACOUSTIC Properties:

Sound Transmission Class	: STC-15	as per ISO 354/ ASTM C423/ IS 8225
Noise Reduction Co-efficient	: NRC-0.25	as per ISO 354/ ASTM C423/ IS 8225