

AEROFLEX[®]

EPDM Insulation Tubes & Sheets



The Ideal Thermal Insulation for HVAC & R

EPDM

Complete
Solution to
Insulation



ASTM E84/D635/
G154/ C534



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AEROFLEX EPDM Insulation Sheets/ Tubes

AEROFLEX is a closed cell flexible elastomeric foam made from EPDM rubber. This material has low thermal conductivity and high water vapour diffusion resistance. It is CFC/ HCFC free and dust and fiber free. It ensures energy saving in eco friendly manner. This product meets insulation requirement in diverse fields such as the automobile, air conditioning & refrigeration industry, construction industry, pharma industry, hotels/ hospital and cold storage industry.

Product Features

Wide Range: 1/4 inch to 10 inches diameter | UV & Weather resistant | Nitrosamine free in accordance to FDA norms | Non polar | Anti fungal & Anti bacterial | Low density, closed cell structure having low and stable K value for high energy saving | Environment friendly | Temp range -57°C to 125°C* | Does not corrode copper tubing | CFC/HCFC free | Free from cracking | Quick and easy installation | Low water absorption & low water vapour permeability | Flame & smoke proof, meets international fire and smoke standard such as ASTM-E84, UL94, IMO, ASTM-D635.

Size availability

- 6mm, 9mm, 13mm, 19mm, 25mm and 32mm wall thickness to fit all standard copper and iron pipes diameters from 6mm (1/4") to 108mm (4 1/4").
- Other size available on request.
- Tube length: 2 meters (6.5 ft).
- Available in special sizes and long coils on request.

Specification sheet

Technical Performance		
Thermal Insulation Material	Closed Cell Elastomeric EPDM Rubber Foam	
Density	40 to 60 Kg/m ³	ASTM D 1667
Service Temperature	-57°C to 125° C	Becomes hard at -57° C but can be used at -200° C
Thermal Conductivity	0.0310 W/m ² *K at -20°C 0.0330 W/m ² *K at 0°C 0.0356 W/m ² *K at 24°C 0.0365 W/m ² *K at 32°C	ASTM C 518 EN ISO 8497
FIRE & SMOKE CHARACTERISTICS a)Flammability b)Flame Spread & Smoke Density Test c)Smoke and Toxicity Test d)Self Extinguishing	Class V-0 Class A Passed Passed	UL 94-1997 ASTM-E84 IMO Res. MSC 61(67) Anx 1.P2 ASTM D 635 -06
Water absorption (%)	<5% (by weight) 0.20%(by volume)	ASTM D 1056
Water Vapour diffusion resistance Index	> 7000 (For 25 mm thickness)	EN 12086
Water Vapour Permeability - perm.in	<0.1 perm.in	ASTM E 96
Mold Resistance	Meets Requirement (Rating 1)	UL 181
Fungi Resistance	No Growth	ASTM C 1338
Bacteria Resistance Test	Zero Growth	ASTM E2180-01
Ozone Depleting substances (CFC/HCFC)	Not Detected	USEPA 5021A / USEPA 8260C
Ozone Resistance	No Cracks	ASTM D 1149
UV Weather Resistance	Excellent	ASTM G154
Flexibility	Excellent (Not rupture)	ASTM C 534
Compressive Strength	0.49 kg/cm ²	ASTM D 575 Speed 12 mm/min (@50% strain)
N - Nitrosamines Release	Not Detected	FDA CPG 7117.11
Corrosion on copper, stainless steel	Non Corrosive	DIN 1988
ROHS	Not Detected	EN Restriction of the use of hazardous substances directive (ROHS) 2002/95/EC
Green guard gold - certified	Yes	

AEROFLEX Tubing (EPDM Insulation Tube Packing List)

Packing Details for AEROFLEX Tubing Tubes:

Size-ID		6mmThk		9mmThk		13mmThk		19mmThk		25mmThk		32mmThk	
mm	inch	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn
6	1/4			264*	528			64*	128				
10	3/8	140*	280			70*	140	40	80	25	50		
13	1/2	80*	160			60*	120	36	72	20	40		
16	5/8			140*	280			35	70	20	40	20	40
19	3/4			72	144	56	112	30	60	20	40	20	40
22	7/8			64	128	48	96	30	60	18	36	18	36
25	1			56	112	42	84	25	50	16	32	16	32
28	1 1/8			49	98	36	72	25	50	16	32	12	24
32	1 1/4			42	84	30	60	20	40	15	30	12	24
35	1 3/8			40	80	30	60	18	36	12	24	12	24
38	1 1/2			36	72	25	50	16	32	12	24	12	24
42	1 5/8			30	60	25	50	16	32	12	24	10	20
45	1 3/4			30	60	20	40	15	30				
48	1 7/8			28	56	20	40	15	30	10	20	10	20
51	2			24	48	20	40	12	24	9	18	8	16
54	2 1/8			21	42	20	40	12	24	9	18	6	12
57	2 1/4			20	40	18	36	10	20				
60	2 3/8			20	40	18	36	10	20	9	18	6	12
63	2 1/2			20	40	15	30	10	20	8	16		
67	2 5/8			18	36	15	30	9	18	8	16	6	12
73	2 7/8			18	36	13	26	9	18	8	16	6	12
76	3			18	36	12	24	8	16	8	16	5	10
79	3 1/8			16	32	12	24	8	16	8	16	5	10
82	3 1/4							6	12	6	12		
89	3 1/2			16	32	12	24	6	12	6	12	5	10
92	3 5/8											5	10
98	3 7/8												
102	4							4	8	5	10	4	8
105	4 1/8									4	8		
108	4 1/4							4	8	4	8	4	8
114	4 1/2							4	8	4	8	2	4
127	5												
130	5 1/8									2	4		

Length: 2000 ± 20mm. Thickness from 6mm to 19mm ± 1mm and for 25mm & 32mm ± 2mm.

Tolerance (ID): from 6mm to 42mm +2/-0mm, 42mm to 73mm +3/-0mm and above 73mm +6mm/-0mm.

Note: Special sizes available on request.

Tubes can also be available ID - 140mm, 165mm size as per customer requirement.

Remarks: * indicates Trading (TDG) Item-Lead Time 60 Days on Request.

AEROFLEX EPDM Insulation Sheet packing list

AEROCELL Continuous Sheets					
Sheet Thickness * (mm)	Dimensions	Roll Content sq. mtr.	Sheet Thickness (mm)	Dimensions	Roll Content sq. mtr.
6	1 x 40m	40	19	1m x 15m	15
9	1 x 30m	30	25	1m x 10m	10
13	1 x 25m	25	32	1m x 8m	8
16	1 x 20m	20			

* 3mm sheet is available with one side skin only | * Tolerance for thickness from 6mm to 19mm ±1mm & for 25mm & 32 mm ±2mm |

Also EPDM HT Sheet/ Tubes are available for high temp application upto 50°C

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Disclaimer: Although these values represent actual results achieved in tests, they should only be used as a guide. ALP Aeroflex cannot guarantee the performance of the product as all situations are different & should be treated separately. All statements & technical informations are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the informations are appropriate for specific use intended by the recipient.