

AEROFLEX[®]
EPDM Insulation Tubes & Sheets



The Ideal Thermal Insulation for HVAC & R

EPDM

Complete
Solution to
Insulation



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 stabile K value for high energy saving | Environment friendly | Temp. range -200°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, JIS K6911, EMPA, 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 (¼") to 108mm (4¼").
- 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				
Cell Structure	Closed Cell		ASTM D 1667	
Density lbs/ft ³ (Kg/m ³)	3.0-5.0(48-80)		Become hard at -57°C but can be used at -200°C	
Service temperature	-70°F to 257°F -57°C to 125°C		ASTM C 177 ASTM C 518 EN ISO 8497	
Thermal Conductivity BTU.in/ft ² hr°F (W/m.K)	Mean Temp K-Value	-4°F (-20°C) 0.215 (0.0310)	-32°F (0°C) 0.230 (0.0330)	-75°F (24°C) 0.247 (0.0356)
Water absorption (%) (Max)	< 5% <0.20% (by volume)		ASTM D 1056 ASTM C 1763 according to ASTM C 434	
Water Vapor Permeability perm.in (g/Pa.s.m)	<0.10 (1.44x10 ⁻¹⁰ g/Pa.s.m)		ASTM E 96	
Fungi Resistance	Zero growth		ASTM C 1338	
Bacteria Resistance Test	Meet Requirement (Anti-Bacteria)		ASTM E 2180	
Ozone Resistance	Very Good		ASTM D 1149 ASTM D 1171	
Flammability & Smoke Density	Class A Class V-0 Self-Extinguishing Pass		ASTM E 84 UL 94 ASTM D 635 IMO	
Heat stability (%Shrinkage) @ 220° (104° C) x 7 days	< 7%		ASTM C 534	
Corrosion on copper, stainless steel	Non corrosive		DIN 1988	
UV Weather Resistance	Very Good		ASTM G 154	
Mold Resistance	Meet requirement (Rating 1)		UL 181	
Nitrosamine Contents	Not Detected		FDA CPG 7117.11	
Sound Reduction (AF)	37 dB (20mm)		DIN EN ISO10052, DIN 4109-11	
Flexibility	Excellent		ASTM C 534	
RoHS	Not Detected		EN Restriction of the use of Hazardous substance directive (RoHS 2015/563)	

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

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.



Manufactured and Marketed by:

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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.