



BIO-FLEX

Anti Microbial Duct Insulation for Improve Indoor Air Quality

Epa Approved
Anti-microbial Agent



Standard - Black Color, (also available in green color on request)



INNER ENGINEERING PRODUCTS AND SYSTEMS PVT LTD



MAHARASHTRA



GOA



GUJARAT



MADHYA PRADESH



CHHATTISGARH

EXCLUSIVE AUTHORISED DISTRIBUTORS FOR WEST REGION

1800 572 7963

www.innerengineering.co.in

ie.inquiry@innerengineering.co.in

DESCRIPTION

Bio-flex, the new range of anti-microbial cellular elastomeric nitrile rubber insulation from Aerocell.

ALP Aeroflex has regularly displayed an ability to innovate and bring a range of quality rubber products. Continuing in the same spirit to innovate, upgrade and expand, the company has introduced the anti-microbial closed cell expanded elastomeric nitrile insulation.

The improved cell structure of Bio-Flex has improved thermal insulation properties, superior protection against microbes, fungi and bacteria and improved resistance to moisture and vapour transmission.

This is a light weight flexible foam material designed for clean room insulation applications. It is available in sheet and pipe form.

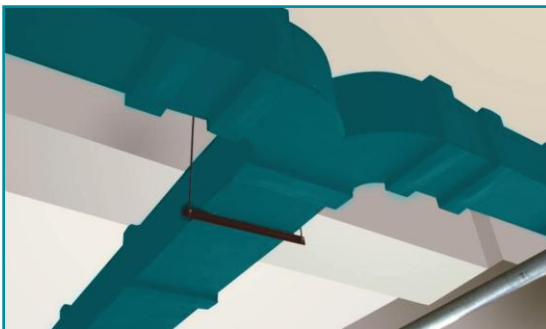
PRODUCT FEATURES

Completely closed cell elastomeric nitrile insulation | Quick and easy to install with no special tools | Flexible, durable and easy to handle | Excellent compression strength due to closed cell structure. | Superior thermal insulation properties over other open or semi closed cell insulation material | Very high diffusion resistance and no cladding is required if installed inside. | It is available with reinforced aluminium foil, Glass cloth and self adhesive backing | Wide working temperature (-40°C to +105°C). | It meets class O fire performance as per BS 476 Part 6 & 7, UL 94 flammability class V-0

Specification sheet

Technical Performance	
Density	50 Kg/M3 ± 20%
Temperature Range *	-40°C to + 105°C
Thermal Conductivity W/m.K ASTM-C-518 & ISO 8301	0.035 W/ mK @ 10°C 0.036 W/mK @ 20°C 0.037 W/mK @ 30°C 0.038 W/mK @ 40°C
Water vapour diffusion Resistance factor μ	≥ 7,000
Ecological Data	No asbestos, No HCFC - CFC, No Formaldehyde - Cd-Hg etc.
Cell Structure	Closed Cell
Ozone resistance	Very Good
Anti fungal	ASTM G 21
Odour	Negligible
Anti bacterial	ASTM E 2180
Fungi & Bacterial resistance	ISO 846
Reaction to Fire	Class 0 - BS 476 Part 6&7 Class 1 BS 476 Part 7:1997
a) Fire Performance acc. To building regulation	Class 1 BS 476 Part 7:1997
b) Surface flame spread	l<12 and i1<6 BS 476 Part 6:1989
c) Fire Propagation	Class V-0 UL 94:1997
d) Rate of Burning (Vertical position)	Self-Extinguishing, does not drip and does not spread flames,
e) Practical fire Behaviour	ASTM D 635-06

* For temperature below -40°C pls consult our engineering group



Packing Details for AEROCELL 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	250	500	156	312	110	220	54	108				
10	3/8	200	400	120	240	80	160	40	80	25	50		
13	1/2	150	300	100	200	72	144	36	72	20	40		
16	5/8	120	240	90	180	63	126	35	70	20	40	20	40
19	3/4	100	200	72	144	56	112	30	60	20	40	20	40
22	7/8	90	180	64	128	48	96	30	60	18	36	18	36
25	1	80	160	56	112	42	84	25	50	16	32	16	32
28	1 1/8	70	140	49	98	36	72	25	50	16	32	12	24
32	1 1/4	60	120	42	84	30	60	20	40	15	30	12	24
35	1 3/8	60	120	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						
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								
60	2 3/8			20	40	18	36	10	20	9	18	6	12
63	2 1/2			20	40	15	30	10	20				
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
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												
108	4 1/4					8	16	4	8	4	8	4	8
114	4 1/2							4	8	4	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 - 127mm, 130mm, 140mm, 165mm size as per customer requirement.



INNER ENGINEERING PRODUCTS & SYSTEMS PVT LTD

Registered Office (Ahmedabad)

📍 Ground Floor, Showroom No. 3, Brooklyn Tower, Next to YMCA Club, S,G Highway, Ahmedabad - 380015, Gujarat, India.

Branch Offices (Pune - Vadodara)

📍 Office No 501, Fifth Floor, Archway, Plot No 5, Sopan Baug Society, Survey No 2/1, Balewadi, Pune- 421045, Maharashtra, India

📍 713/A, Atlantis Heights, Opp. Swagat Petrol Pump, Nr. Genda Circle, Vadodara - 390021, Gujarat, India

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.