

AEROFLEX[®]



THE IDEAL EPDM THERMAL INSULATION

ADVANTAGES

- ◆ Closed cell elastomeric foam
- ◆ Temp. range: -57° C to 125° C
- ◆ Excellent Fire resistance
- ◆ Least Smoke Density & Toxicity
- ◆ Non-polar
- ◆ CFC/ HCFC free
- ◆ Low thermal conductivity
- ◆ Anti-microbial
- ◆ Non-corrosive

CERTIFICATIONS



PRODUCT DESCRIPTION

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, dust & 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, hotel/ hospital and cold storage industry.

Applications	Insulation to prevent condensation and reduce energy loss on HVAC ducts, pipes, tanks & equipments.
Assembly	Aeroflex can be used together with ALP Aeroflex adhesives (Aerostick) for a complete insulation system.
Product Range*	Available in plain and self-adhesive rolls in 6, 9, 13, 16, 19, 25, 32 mm thickness of 1000 & 1200 mm width. Available with factory laminated Alu, GC and self-adhesive. Available in tubes form also.

TECHNICAL DETAILS

PROPERTIES	VALUES	TEST METHOD
Thermal Insulation Material	Closed Cell Elastomeric EPDM Rubber Foam	
Foam Density	40 to 60 Kg/m ³	ASTM D 1667
Service Temperature	-57°C to 125° C**	
Thermal Conductivity (Foam)	≤0.034 W/m °K at 0 °C; ≤0.036 W/m °K at 24 °C; ≤0.038 W/m °K at 32 °C	ASTM C 518
Fire & Smoke Characteristics		
a) Flammability	Class V-0	UL 94
b) Flame Spread & Smoke Density Test	Class A (25/50)	ASTM-E84
c) Smoke and Toxicity Test	Passed	IMO 2010 FTP Code
d) Self Extinguishing	Passed	ASTM D 635
Water absorption (%)	<5% (by weight)	ASTM D 1056
Water Vapour diffusion resistance Index (μ)	≥7000	ASTM E 96
Mold Resistance	Meets Requirement (Rating 1)" to "Pass"	UL 181
Fungi Resistance	No Growth	ASTM C 1338 / ASTM G 21
Ozone Depleting substances (CFC/HCFC)	Not Detected	USEPA 5021A / USEPA 8260C
Ozone Resistance	No Cracks	ASTM D 1149
UV Weather Resistance	Excellent	ASTM G154
N - Nitrosamines Release	Not Detected	
Corrosion on copper, stainless steel	Non Corrosive	DIN 1988
ROHS	Not Detected	EN Restriction of the use of hazardous substances directive (ROHS) 2011/65/EC
Indoor air quality (VOCs)	Green guard gold certified	UL 2818

Storage condition : Store in Clean & Dry Rooms (Covered) Away from Direct Sunlight & Water.

SIZE	THICKNESS	WIDTH
For Thickness 6mm To 19mm	± 1 mm	For 1200mm: ± 30 mm, 1000mm: ± 20 mm
For Thickness Above 19mm To 32mm	± 2 mm	For 1200mm: ± 30 mm, 1000mm: ± 20 mm
For Thickness Above 32mm To 40mm	± 3 mm	For 1200mm: ± 30 mm, 1000mm: ± 20 mm
For Thickness Above 40mm To 45mm	± 4 mm	For 1200mm: ± 30 mm, 1000mm: ± 20 mm
For Thickness 50mm & Above	± 5 mm	For 1000mm: ± 20 mm

Shelf life of material with self adhesive: 6 months from date of Invoice



Notes:

* 3mm sheet is available with one side skin only

** Becomes hard at -57° C but can be used at -200° C

Also EPDM HT sheet/ tubes are available for high temp application upto 150° C

DOWNLOAD
CATALOGUE



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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.