

Armaflex® Class 0

FLEXIBLE THERMAL INSULATION,
ENGINEERED TO PREVENT
CONDENSATION AND ENERGY LOSSES



- Prevents condensation
- Class 0 Fire Performance
- Reduces Energy Losses
- No vapour barrier required
- Low Thermal Conductivity $\lambda_{0^\circ\text{C}} \leq 0.035 \text{ W/(m} \cdot \text{K)}$
- FM Approved
- High water vapour diffusion resistance, $\mu \geq 7,000$
- Completely closed cell structure



شركة قطر للعوازل
Qatar Insulation Company

Technical Data - Armaflex Class O

Brief Description	Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance and low thermal conductivity						
Material Type	Elastomeric foam based on synthetic rubber (NBR)						
Colour	Black						
Product Range	Available in sheets in 6 mm, 9 mm 13 mm, 16 mm, 19 mm, 25 mm & 32 mm thickness. Self adhesive Sheets are also available. Available in tubes in 9 mm 13 mm, 19 mm, 25 mm & 32 mm thickness. Available in self-seal and without self-seal Tubes. Arma-chek GC (CO) tubes pre covered with self seal and Arma-chek GC (CO) Sheets pre covered are available.						
Applications	Insulation to prevent condensation, reduce energy losses and protect against frost on pipes, air ducts and vessels. Suitable for hot and cold water services, chilled water lines, heating systems, air conditioning ductwork, refrigerated pipework, process and industrial pipework & equipments						
Safety and Environment	ODP zero GWP zero Dust & fibre free						
Assembly	Closed cell structure means no additional vapour barrier is required						
Property	Value/Assessment					Special Remark	
Temperature Range							
Temperature Range	max. service temperature	+105 °C		(85 °C if sheets or tape is glued to the object with its whole surface)		Tested acc.to EN 14706, EN 14707 and EN 14304	
	min. service temperature ¹	-50 °C		(0 °C in case of SA sheets, SS tubes & ArmaChek GC pre-laminated sheets/tubes)			
Thermal Conductivity							
Thermal Conductivity	ϑ_m		0	+20	+40	[°C]	Tested acc. to EN 12667 / EN ISO 8497
	λ		≤ 0.035	0.037	0.039	W/(m · K)	
Water vapour diffusion resistance							
Water vapour diffusion resistance	μ		≥ 7,000				Tested acc. to EN 12086 EN 13469
Fire Performance							
Reaction to Fire	Fire performance acc. to building regulation		Class O			Surface Spread of Flame:tested acc to BS 476 Part 7:1997	
	Surface Spread of Flame		Class 1				
	Fire propagation		Total index performance (I) ≤ 12 Sub index (i _i) ≤ 6			Fire Propagation: tested acc to BS 476 Part 6:1989	
Other Fire Class	FM Approved UL 94 - HB, V-0					Tested acc. to UL 94	
Practical Fire Behavior	Self-extinguising, does not drip and does not spread flames						
Chemical Behaviour	Excellent resistance to ozone, oil and chemicals (consult product test list)						
UV Resistance	For UV Protection, Armacell recommended Arma-Chek covering systems shall be applied						
Storage & Shelf life	Shall be stored in dry & clean area. Away from direct Sunlight Self adhesive tapes, self-adhesive sheets: 1 year						

1. For temperatures below -50 °C please contact our Technical Department to request for the corresponding technical information.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Installation instructions are available in our Armaflex installation manual.

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