

# 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  $\lambda_{0^{\circ}\text{C}} \leq 0.035 \text{ W}/(\text{m} \cdot \text{K})$
- FM Approved
- High water vapour diffusion resistance,  $\mu \geq 7,000$
- Completely closed cell structure



# 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		
<b>Property</b>	<b>Value/Assessment</b>		<b>Special Remark</b>
Temperature Range			
Temperature Range	max. service temperature	+105 °C	(85 °C if sheets or tape is glued to the object with its whole surface) (0 °C in case of SA sheets, SS tubes & ArmaChek GC pre-laminated sheets/tubes)
	min. service temperature <sup>1</sup>	-50 °C	
Thermal Conductivity			
Thermal Conductivity	$\vartheta_m$	0	+20
	$\lambda$	≤	0.035
			+40
			[°C]
			W/(m · K)
Water vapour diffusion resistance			
Water vapour diffusion resistance	$\mu$	≥	7,000
Fire Performance			
Reaction to Fire	Fire performance acc. to building regulation	Class O	
	Surface Spread of Flame	Class 1	
	Fire propagation	Total index performance (I) ≤ 12 Sub index (i <sub>s</sub> ) ≤ 6	
Other Fire Class	FM Approved UL 94 - HB, V-0	Tested acc. to UL 94	
Practical Fire Behavior	Self-extinguishing, 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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CIN: U24293PN2005FTC131939