

# AF/Armaflex® Class 0

THE FLEXIBLE INSULATION SYSTEM TO  
PREVENT CONDENSATION AND ENERGY  
LOSSES



- Reliable condensation control with closed-cell Armaflex structure
- High flexibility and ease of installation.
- Increases equipment life-cycle.
- Complete insulation system with compatible tapes, adhesive, fire sleeves and pipe supports

- Class 0 Fire Performance
- NEW! Improved thermal conductivity value  $\lambda_{0\text{ }^\circ\text{C}} \leq 0.033 \text{ W}/(\text{m} \cdot \text{K})$
- NEW! Improved water vapour resistance value  $\mu \geq 10,000$
- Made in the UK



## Technical Data - AF/Armaflex Class 0

Brief description	Flexible, closed-cell insulation material with built-in Microban® antimicrobial protection
Material type	Elastomeric foam based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN 14304.
Colour	Black
Material Special Information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure. Covered with polyethylene film. Traces of silicon can be found on the protective film used on self-adhesive closures.
Applications	Insulation / protection to control condensation, reduce energy losses and protect against frost on pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) Suitable for hot and cold water services, chilled water lines, heating systems, air conditioning ductwork and refrigerated pipework.
Special Features	MCCP-free
Safety and Environment	Type III Environmental Product Declaration (EPD): Declaration number "EPD-ARM-20150110-IBB1-DE", Institut Bauen und Umwelt e.V. (IBU) Green Guide A rating = 2.75 points (2 points from Mat 04 + 0.75 uplift for tier 2 EPD)
Assembly	Light weight and flexible. Closed cell structure means no additional vapour barrier is required.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a>

Property	Value/Assessment	Test <sup>*1</sup>	Special Remarks
<b>Temperature Range</b>			
Temperature Range	Max. service temperature	+ 110 °C (+ 85 °C if sheet or tape is glued to a flat object )	EU 5709 Tested acc. to EN 14706, EN 14707 and EN 14304
	Min. service temperature <sup>1</sup>	-50 °C	
<b>Thermal Conductivity</b>			
Thermal Conductivity	$\vartheta_m$ +/-0 °C	$\lambda =$	EU 5709 Declared acc. to EN ISO 13787 Tested acc. to EN 12667 EN ISO 8497
	Tubes 6-19 mm, sheet & tape 3-32 mm $\lambda \leq 0.033$	W/(m · K) [33 + 0,1 · $\vartheta_m$ + 0,0008 · $\vartheta_m^2$ ]/1000	
	Tubes 25-32 mm $\lambda \leq 0.036$	W/(m · K) [36 + 0,1 · $\vartheta_m$ + 0,0008 · $\vartheta_m^2$ ]/1000	
	Sheets, tape 3-32 mm $\lambda \leq 0.033$	W/(m · K) [33 + 0,1 · $\vartheta_m$ + 0,0008 · $\vartheta_m^2$ ]/1000	
<b>Water vapour diffusion resistance</b>			
Water vapour diffusion resistance	Tubes 6-19 mm ; Sheets 6-32 mm	$\mu \geq 10,000$	EU 5709 Tested acc. to EN 12086 EN 13469
	Tubes 25-32 mm	$\mu \geq 7,000$	
<b>Fire performance</b>			
Reaction to fire <sup>2</sup>	tubes	B <sub>L</sub> -s3, d0	EU 5709 Classified acc. to EN 13501-1 Tested acc. to EN 13823 EN ISO 11925-2
	sheets & tape	B-s3,d0	
	Surface Spread of Flames	Class 1	GB 5731 & GB 5732 Surface Spread of Flame: tested according to BS 476 Part 7:1997
	Fire Propagation	Total Index Performance (I) ≤ 12 Sub Index (i <sub>1</sub> ) ≤ 6	
	Fire Performance acc. to Building Regulations	Class 0	GB 5731 & GB 5732 Fire Propagation: tested according to BS 476 Part 6:1989
Other fire class	FM-approved	D 5551	Tested according to UBC26-3, Class No.4924
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames		
<b>Other technical features</b>			
Dimensions and tolerances	In accordance with EN 14304, table 1	EU 5709	Tested acc. to EN 822, EN 823, EN 13467
UV resistance	Protection against UV-radiation with Armafinish 99 paint is required. Alternatively use Armaflex Tuffcoat or Arma-Chek Silver.		
Health aspects	ODP & GWP ratings of zero		
Storage & Shelf life	Self-adhesive tapes, self-adhesive sheets, self-adhesive tubes: 1 year		Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).
Antimicrobial behaviour	In-built Microban® active antimicrobial protection: No fungal growth observed		

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

2. The building materials classification is valid on metal or solid, mineral surfaces.

\*1 Further documents such as test certificates and approvals can be requested using the registration number given.