

# Class 0 Armaflex®

Flexible insulation to prevent  
condensation and energy losses



- Reliable condensation control
- Effective reduction of thermal losses
- Built-in Microban® antimicrobial protection reduces mould and bacteria growth
- Class 0 Fire Performance
- Thermal conductivity  $\lambda_{0\text{ }^{\circ}\text{C}} \leq 0.034 \text{ W}/(\text{m} \cdot \text{K})$
- Water vapour resistance  $\mu \geq 7,000$



# Technical Data - Class 0 Armaflex

Brief description	Flexible, closed-cell insulation material with built-in Microban® antimicrobial protection
Material type	Elastomeric foam based on synthetic rubber
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.
Safety and Environment	Dust & fibre free
Assembly	Light weight and flexible. Closed cell structure means no additional vapour barrier is required.

Property	Value/Assessment	Test <sup>*1</sup>	Super- vision <sup>*2</sup>	Special Remarks
<b>Temperature Range</b>				
Temperature Range	Max. service temperature + 110 °C (+ 85 °C when sheet or tape is glued to flat surfaces.)	GB 5165 / GB 5164		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] $\lambda =$	D 4804 GB 5148		Tested acc. to DIN EN 12667 EN ISO 8497
	$\lambda \leq 0.034$ W/(m · K) $[34 + 0.1 \cdot \vartheta_m + 0.0008 \cdot \vartheta_m^2]/1,000$			
<b>Water vapour diffusion resistance</b>				
Water vapour diffusion resistance <sup>2</sup>	Sheets $\mu \geq 7,000$	EU 4950	○	Tested acc. to BS EN ISO 9346:1996 EN 12086 EN 13469
	Tubes $\mu \geq 6,000^*$			
<b>Fire performance</b>				
Reaction to fire <sup>3</sup>	Surface Spread of Flames Class 1	GB 5151 & GB 5153	○/●	Surface Spread of Flame: tested according to BS 476 Part 7:1997
	Fire Propagation Total Index Performance (I) $\leq 12$ Sub Index (i <sub>1</sub> ) $\leq 6$	GB 5150 & GB 5152		Fire Propagation: tested according to BS 476 Part 6:1989
	Fire Performance acc. to Building Regulations Class 0			
	Euroclass - sheets B-s3, d0			Classified acc. to EN 13501-1
	Euroclass - tubes B <sub>L</sub> -s3,d0			Tested acc. to EN 13823 EN ISO 11925-2
Other fire class	FM-approved	D3217 GB4706	●	Tested according to UBC26-3, Class No.4924
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames			
Dimensions and tolerances	In accordance with EN 14304, table 1	GB 5164 / GB 5165		Tested acc. to EN 822, EN 823, EN 13467
Chemical behaviour	Excellent resistance to ozone, oil and chemicals (consult product test list).			
UV resistance	For UV protection Armafinish 99 paint required			
Health aspects	Dust & fibre free	GB 5143		
Antimicrobial behaviour	In-built Microban® antimicrobial protection : No fungal growth observed			
Water Absorption	0.2% by volume			Test acc to ASTM C 209
Environmental Aspects	ODP zero GWP zero	GB 5143		

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

2. \*Tubes (6 - 19mm)

3. 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.

\*2 ●: Official supervision by independent institutes and /or test authorities

○: In-house quality monitoring

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