AF/Armaflex® Class 0

THE FLEXIBLE INSULATION SYSTEM TO PREVENT CONDENSATION AND ENERGY LOSSES

- Reliable condensation control with closed-cell Armaflex structure
- Effective reduction of thermal losses
- Built-in Microban® antimicrobial protection reduces mould and bacteria growth

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

Microban® antibacterial protection

FM APPROVED

RAL GÜTEZEICHEN Dämmstoffe aus Schaumkunststoffen FEF / PEF

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
Assembly	Light weight and flexible. Closed cell structure means no additional vapour barrier is required.
Remarks	EC Certificate of Conformity no. 0550 and 0551 of Güteschutzgemeinschaft Hartschaum e.V. , Celle

Property	Value/Assessment				Test*1	Special Remarks
Temperature Range						
Temperature Range	Max. service temperature	+ 110 °C		(+ 85 °C if sheet or tape is glued to the object with its whole surface.)	EU 5411 EU 5486	Tested acc. to EN 14706, EN 14707 and EN 14304
	Min. service temperature[1]	-50 °C				
Thermal Conductivity						
Thermal Conductivity		ϑ_m +/-0	°C	λ=	EU 5411 EU 5486	Declared acc. to EN ISO 13787 Tested acc. to EN 12667 EN ISO 8497
	Tubes 6-19 mm	λ ≤ 0.033	W/(m · K)	$[33 + 0{,}1 \cdot \vartheta_m + 0{,}0008 \cdot \vartheta_m^2]/1000$		
	Tubes 25-32 mm	λ ≤ 0.036	W/(m · K)	$[36 + 0{,}1 \cdot \vartheta_m + 0{,}0008 \cdot \vartheta_m^2]/1000$		
	Sheets, tape 3-32 mm	λ ≤ 0.033	W/(m · K)	$[33 + 0{,}1 \cdot \vartheta_m + 0{,}0008 \cdot \vartheta_m^2]/1000$		
Water vapour diffusion resistance						
Water vapour diffusion resistance	Tubes 6-19 mm ; Sheets 6-32 mm	μ	≥	10,000	EU 5411 EU 5486	Tested acc. to EN 12086 EN 13469
	Tubes 25-32 mm	μ	≥	7,000		
Fire performance						
Reaction to fire[2]	tubes		B_L-s3, d0		EU 5411 EU 5486	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 5151 & GB 5153	Surface Spread of Flame: tested according to BS 476 Part 7:1997
	Fire Propagation		Total Index Performance (I) ≤ 12			
			Sub Index (i_1) ≤ 6		GB 5150 & GB 5152	Fire Propagation: tested according to BS 476 Part 6:1989
	Fire Performance acc. to Building Regulations		Class 0			
Other fire class	FM-approved				FM: D 5551	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				EU 5411 EU 5486	Tested acc. to EN 822, EN 823, EN 13467
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.

All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended. Installation instructions are given in our Armaflex installation manual. Not suitable for outside use. Armaflex should be protected within 3 days of installation with Armafinish Paint or Arma-Chek covering. With some refrigerants the discharge temperature may exceed +110 °C, please consult our Technical Department for further information.