



INSTALL IT. TRUST IT.

AP/ArmaFlex

Insulating mechanical equipment with AP/ArmaFlex is one of the simplest and most efficient ways to save energy reliably over the long term in both commercial and residential buildings

- // Reliable, long-term condensation control
- // Energy efficient
- // Quick, easy and clean installation
- // Professional fire protection
- // Mechanical resistance
- // Low total installed costs
- // Built-in antimicrobial protection reduces mould and bacteria growth

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 **armacell**[®]
ArmaFlex[®]

TECHNICAL DATA - AP/ARMAFLEX

Brief description	AP/ArmaFlex is a flexible insulation material that reliably protects against water vapour ingress due to its closed-cell structure. No additional water vapour barrier is required.
Material type	Elastomeric foam based on synthetic rubber.
Additional material information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil. Traces of silicon can be found on the protection paper/foil used to protect self-adhesive closures. AG/ AL Foil Facing: Can be provided with AG/ AL foil FACING
Product colour range	Black
Special features	High flexible closed-cell insulation material especially designed for HVAC/R applications.
Applications	Insulation for piping and ducting associated with heating, ventilation, air conditioning and refrigeration (HVAC-R) systems, Variable Refrigerant Volume (VRV) and Variable Refrigerant Flow (VRF) systems, chillers as well as hot and cold water plumbing systems. Structure-borne noise reduction in service-water and waste-water installations.
Installation	Please refer to the ArmaFlex application manual for advice.

Property	Value / Assessment		Standard / Test method				
Temperature range							
Service temperature	Range	Min. °C ¹	Max. °C ²	ASTM C534 - Grade I (TYPE I & TYPE II)			
	Full range	-50	105				
Thermal conductivity							
Declared thermal conductivity	Øm	0		ASTM C518, ASTM C177			
	λd ≤ [W/(m·K)]	0,033					
	Formula	[31 + 0.1 · Øm + 0.0008 · Øm ²]/1000					
Fire Performance and Approvals							
Surface burning characteristics	25/50 rated FM Approved UL Standards		ASTM E84, FM 4924, UL94 5VA, UL94 V-0				
Fire performance							
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames.						
Resistance to water							
Water absorption	0.2%		ASTM C209				
Physical attributes							
Dimensions and tolerances	In accordance with ASTM C302-13 (R17)		ASTM C302				
Acoustic performance							
Weighted sound absorption coefficient, α _w	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
	25mm	0,170	0,320	0,580	0,600	0,480	0,320
	38mm	0,180	0,360	0,800	0,750	0,700	0,410
Weather and UV resistance							
UV resistance ³	Protection against UV radiation is necessary (see Technical Bulletin no. 142)						
Resistance to ozone	Good		ASTM D1171				
Health and environment							
Volatile organic compounds (VOC) content	Low volatile organic compounds (VOC), Low Total Aldehyde.		UL 2821, GreenGuard Gold Certificate				
Antimicrobial behaviour	Built-in antimicrobial product protection. No fungal growth. No bacterial growth.		ASTM G21				
Health aspects	Manufactured without CFCs. Free of dust, fibre and formaldehyde.		UL 2818				

Property	Value / Assessment	Standard / Test method
Environmental aspects	Zero ODP and GWP.	
Environmental Product Declaration (EPD)	Type III EPD, Declaration Number EPD-ARM-20200219-IBB1-EN, Institute Bauen Undumwelt e.V.(IBU)	ISO 14025, EN 15804+ A
Other technical features		
Shelf life	Self-adhesive tapes, self-adhesive sheets: 1 year	
Storage	To be stored in dry, shaded, UV protected and clean area. Normal relative humidity (50% to 70%) and ambient temperature (0°C - 35°C).	

¹For temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

²+85 °C, for products with a self-adhesive layer.

³If ArmaFlex is used outdoors or in applications under UV radiation, it should be protected with ArmaFinish Paint, or a covering such as ArmaClad Arma-Chek within 3 days of installation.

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ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical insulation solutions that create sustainable value for its customers. Armacell's products significantly contribute to driving energy efficiency worldwide. With more than 3,100 employees and 26 production plants in 20 countries, Armacell operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

For more information, please visit:
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