

Technical Data - Armaflex XG

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. 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 foil. Traces of silicon can be found on the protection paper/foil used to protect self-adhesive closures.
Applications	Insulation / protection of pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) of air-conditioning, refrigeration and process equipment to prevent condensation and save energy as well as insulation of pipes in sanitary and heating applications.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP

Property	Value/Assessment			Test ^{*1}	Special Remark	
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 5702	Tested acc.to EN 14706, EN 14707 and EN 14304	
	min. service temperature ¹	-50 °C				
Thermal Conductivity						
Thermal Conductivity	ϑ_m	+/-0 °C	$\lambda =$	EU 5702	Declared acc. to EN ISO 13787 Tested acc. to EN 12667 EN ISO 8497	
	Tubes 6-19 mm	$\lambda \leq 0,035$	W/(m · K)			$[35 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
	Sheets 6-25 mm, tape	$\lambda \leq 0,035$	W/(m · K)			$[35 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
	tubes 25-40 mm	$\lambda \leq 0,036$	W/(m · K)			$[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
	sheets 32-40 mm	$\lambda \leq 0,036$	W/(m · K)			$[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
Water vapour diffusion resistance						
Water vapour diffusion resistance	sheets 6-25 mm; tubes 6-19 mm	μ	\geq	10.000	EU 5702	Tested acc. to EN 12086 EN 13469
	sheets 32-40 mm; tubes 25-40 mm	μ	\geq	7.000		
Fire performance						
Reaction to fire	tubes	B _L -s3, d0			EU 5702	Classified acc. to EN 13501-1 Tested acc. to EN 13823 EN ISO 11925-2
	sheets	B-s3,d0				
	tape	B-s3, d0				
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames					
Other technical features						
Dimensions and tolerances	In accordance with EN 14304, table 1			EU 5702	Tested according to EN 822, EN 823, EN 13467	
UV resistance ²	Protection against UV-radiation is necessary.					
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).	

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

2. If Armaflex is applied under UV-radiation the material must be protected within 3 days with a covering.

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

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. Please consult our Customer Service Center before insulating stainless steels. For some refrigerants the discharge temperature may exceed +110 °C, please consult our Customer Service Center for further information.