

HT/Armaflex®

UV RESISTANT HIGH TEMPERATURE
INSULATION FOR INDUSTRIAL AND
SOLAR APPLICATIONS



- Closed-cell structure provides built-in vapour barrier
- Maximum service temperature up to 150 °C
- High temperature applications

- Low life cycle, maintenance and repair costs
- UV resistant for outdoor use
- Thermal conductivity value $\lambda_{40\text{ °C}} \leq 0.042 \text{ W}/(\text{m} \cdot \text{K})$
- Minimum energy loss through low thermal conductivity

Technical Data - HT/Armaflex

Brief description	Highly flexible, closed cell insulation material based on extruded elastomeric foam with resistance to UV radiation.			
Material type	Synthetic EPDM rubber based foam.			
Colour	Black			
Applications	Thermal insulation of pipes, vessels and ducts for solar panels (including outdoors), motor vehicles, hot gas lines, steam and dual temperature lines.			
Special Features	Fulfills DIN 1988, resistant to UV radiation.			
Assembly	The Armaflex application guide should be consulted before use			
Remarks	EC Certificate of Conformity no. 0543 of Güteschutzgemeinschaft Hartschaum e.V. , Celle			

Property	Value/Assessment	Test ^{*1}	Super- vision ^{*2}	Special Remarks			
Temperature Range							
Temperature Range ¹	Max. service temperature ²	+ 150 °C	(+ 85 °C for tapes)	D4866 D4867	Tested acc. to EN14707 EN 14706		
	Min. service temperature	-50 °C					
Thermal Conductivity							
Thermal Conductivity	ϑ_m	40	°C	$\lambda =$	D4778 D4890	o/●	Tested according to: BS 874 Part 2 1986 EN 12667 EN ISO 8497
	tubes	$\lambda \leq 0.042$	W/(m · K)	$[36,92 + 0,125 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 30)^2] / 1000$			
	sheets	$\lambda \leq 0.045$	W/(m · K)	$[39,92 + 0,125 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 30)^2] / 1000$			
Water vapour diffusion resistance							
Water vapour diffusion resistance	tubes	μ	\geq	4,000	D4281		Tested according to EN 12086 EN 13469
	sheets	μ	\geq	3,000			
Fire performance							
Reaction to fire	Class 1				GB5154 & EU5030	o/●	Tested according to: BS 476 Part 7: 1997
	Euroclass sheets & tubes		D-s3, d0 & D _L -s3, d0		EU 5316		
	UL94						
Other fire class							
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames						
Dimensions and tolerances	In accordance with EN 14304, table 1				EU 5316		Tested acc. to EN 822, EN 823, EN 13467
Other technical features							
UV resistance ³	Good						
Health aspects	Dust & Fibre Free						
Storage & Shelf life	Tape, self-adhesive: 1 year						Can be stored in dry, clean rooms at normal relative humidity (50 % to 70 %) and ambient temperature (0 °C - 35 °C)
Resistance to	Building Materials: Very Good Chemicals: Consult Product Test List Ozone: Very Good UV: Very Good						
Environmental Aspects	ODP zero GWP zero				D4524		

1. For temperatures above +125 °C or below -50 °C please contact our Technical Department to request the corresponding technical information.

2. At high service temperatures certain hardening processes may start on the inner surface of the material. Investigations show that these changes have no detrimental impact on the physical and fire protection properties of the material, provided the material is installed in the correct way with all joints properly sealed. For specific applications please consult our technical services department.

3. In outdoor applications, the surface of the material may become discoloured and some minor surface cracks may appear. The visual appearance has no influence on the physical properties of the material however (i.e. thermal conductivity and behaviour in the event of fire).

*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

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. Please consult our Technical Department before insulating stainless steel. Armaflex HT625 adhesive must be used to guarantee correct installation. For temperatures below -50 °C or above +150 °C, please consult our Technical Department for further information.