

# HT/Armaflex®

THE FLEXIBLE EXPERT FOR OUTDOOR  
AND HIGH TEMPERATURE  
APPLICATIONS



- Withstand a large range of normal weathering
- Proven performance of EPDM synthetic rubber
- Retain its physical characteristics throughout its service life
- Low life cycle, maintenance and repair costs
- Outstanding durability under exposure to ultraviolet light
- High degree of stability in extremely high and low temperatures
- Minimum energy loss through low thermal conductivity

# Technical Data - HT/Armaflex

|                                   |   |                      |                        |  |  |
|-----------------------------------|---|----------------------|------------------------|--|--|
| Brief description                 | Highly flexible, closed cell insulation material based on extruded elastomer foam with resistance to UV radiation.  |                      |                        |  |  |
| Material type                     | Synthetic EPDM rubber based foam. Factory made flexible elastomeric foam (FEF) according to EN 14304.   |                      |                        |  |  |
| Colour                            | black   |                      |                        |  |  |
| Applications                      | Thermal insulation of pipes, vessels and ducts in: solar pannels (including outdoors), motor vehicles, hot gas lines and steam- and dual temperature lines. |                      |                        |  |  |
| Special Features                  | Resistant to UV radiation.  |                      |                        |  |  |
| Assembly                          | The Armaflex installation manual and the Technical Bulletin No. 71 should be consulted before assembly  |                      |                        |  |  |
| Remarks                           | EC Certificate of Conformity no. 0543 of Güteschutzgemeinschaft Hartschaum e.V. , Celle   |                      |                        |  |  |
| Property                          | Value/Assessment  |                      |                        | Super-<br>vision <sup>1</sup>  | Special Remark   |
| Temperature Range                 |   |                      |                        |  |  |
| Temperature Range <sup>1</sup>    | max. service temperature <sup>2</sup>   |                      | + 150 °C               | (+ 85 °C for tapes)  |  |
|                                   | min. service temperature  |                      | -50 °C                 |  |  |
| Thermal Conductivity              |   |                      |                        |  |  |
| Thermal Conductivity              | $\vartheta_m$ 40  |                      | °C                     | $\lambda =$  | ○<br><br>Tested according to<br>EN 12667<br>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   | $\mu$                | $\geq$                 | 4.000  | ○<br><br>Tested according to<br>EN 12086<br>EN 13469   |
|                                   | sheets  | $\mu$                | $\geq$                 | 3.000  |  |
| Fire performance                  |   |                      |                        |  |  |
| Reaction to fire                  | Euroclass (tubes)   |                      | D <sub>L</sub> -s3, d0 |  | ○<br><br>Classified acc. to<br>EN 13501-1<br>Tested according to<br>EN 13823 and<br>EN ISO 11925-2 |
|                                   | Euroclass (sheets)  |                      | D-s3, d0               |  |  |
| Other Fire Class                  | Self-extinguishing, does not drip, does not spread flames   |                      |                        |  |  |
| Dimensions and tolerances         | In accordance with EN 14304, table 1  |                      |                        |  |  |
| Other technical features          |   |                      |                        |  |  |
| UV resistance <sup>3</sup>        | Good  |                      |                        |  |  |
| 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)   |                      |                        |  |  |

1. For temperatures above +125 °C or below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

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

3. With outdoor applications, in certain circumstances the material may experience a discoloration of the surface and some minor surface cracks will appear. The visual appearance however has no influence on the physical properties of the material, such as thermal conductivity and behaviour in case of fire.

\*1 ●: Official supervision by independent institutes and /or test authorities  
○: Own in-factory quality monitoring

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. Armaflex HT625 adhesive must be used to guarantee proper installation. For temperatures below -50 °C or above +150 °C, please consult our Customer Service Center for further information.

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IPDS-0018-130209-en(WW)