THE FLEXIBLE EXPERT FOR OUTDOOR AND HIGH TEMPERATURE APPLICATIONS

- Withstand a large range of normal weathering
- Built-in water vapour barrier reduces risk of corrosion under insulation (CUI)
- Retains its physical characteristics throughout its service life
- Low maintenance and repair costs
- Outstanding durability
- High degree of stability in wide temperature range
- 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 (FEP) 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 Armaclass 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 | Test | Supervision | Special Remark
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**Temperature Range** | | | | |
Temperature Range | max. service temperature | + 125 °C | EU 5316 | Tested according to EN 14707
min. service temperature | - 50 °C | | | EN 14708
| (+ 85 °C for tapes) | | | | |
**Thermal Conductivity** | | | | |
| Thermal Conductivity | tubes $\lambda \leq 0,042$ | W/(m·K) | EU 5316 | Tested according to EN 12667
| | sheets $\lambda \leq 0,045$ | W/(m·K) | | EN ISO 8497
| | $\alpha_m = 40$ °C | | | |
| | $\lambda = \left(36,92 + 0,125 \cdot \frac{\alpha_m}{\lambda_{m} - 30}\right) \cdot 1000$ | | | |

**Water vapour diffusion resistance**

| Water vapour diffusion resistance | tubes | $\mu$ | $\geq$ | EU 5316 | Tested according to EN 12086
| | | | | | EN 13469
| sheets | $\mu$ | $\geq$ | 4.000 | | |
| | | | | | 3.000

**Fire Performance**

| Reaction to Fire | Euroclass (tubes) | Ds3, d0 | EU 5316 | Classified acc. to EN 1350-1
| | | | | | Tested according to EN 13823 & EN ISO 11925-2
| | Euroclass (sheets) | Ds3, d0 | | |

**Other Fire Class**

| Other Fire Class | UL-approved | | | |
| | Lloyds Register | | | |

**Practical fire behavior**
Self-extinguishing, does not drip, does not spread flames

**Other Technical Features**

| Dimensions and Tolerances | In accordance with EN 14304, table 1 | EU 5316 | Tested acc to EN 822, EN 823, EN 13487 |

**Resistance to**
Building Materials: Very good
Chemicals: Consult product test list
Ozone: Very good

**Environmental Aspects**
ODP Zero
GWP Zero

**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)

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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 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.
4. Further documents such as test certificates, approvals and the file can be requested using the registration number given.
5. * Official supervision by independent institutes and for test authority
6. In own-quality monitoring
7. 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 Armaclass installation manual. Please consult our Customer Service Center before installing elastomer sheets. Armaclass HT/25 adhesive must be used to guarantee proper installation.

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