

Description: Highly Flexible, closed cell insulation material based on external 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

Safety and Environment: Type III Environmental Product Declaration (EPD). Declaration number "EPD-ARM-20150108-IBB1-DE", Institut Bauen und Umwelt e.V. (IBU).

Assembly: The Armaflex application guide should be consulted before use.

Remarks: Declaration of performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011.

| PROPERTY | SPECIFICATION LIMITS | TEST | REMARKS | |
|-----------------------------------|---|------------------------------------|---|--------------------------------------|
| Temperature Range | Max Service Temp +150°C (+85°C for tapes) Min Service Temp -50°C | EU5666 | Tested acc. to EN14706 EN14707 | |
| Thermal Conductivity | Tubes $\lambda \leq 0.042 \text{ W/(m} \cdot \text{K)}$ Sheets $\lambda \leq 0.045 \text{ W/(m} \cdot \text{K)}$ | EU5666 | Tested acc. to BS874 Part 2 1986 EN 12667 EN ISO 8497 | |
| Water vapour diffusion resistance | Tubes $\mu \geq 4,000$ Sheets $\mu \geq 3,000$ | EU5666 | Tested acc. to EN 12086 EN 13469 | |
| Reaction to Fire | Class 1 | GB5154 | Tested acc. to BS476 Part 7: 1997 | |
| | Euroclass sheets & tubes UL94 | D-s3, d0 & DL-s3, d0 EU5316 | Classified acc. to EN 13501-1 Tested acc. to EN13823 & EN ISO 11925-2 | |
| Other fire class | UL approved | V-0 | UL: Tested acc. to UL94, IEC 60695 and Can/CSA-C.22.2 No.0.17, UL746C | |
| | Lloyds Register Manual having Low Flame Spread Characteristics | Lloyd R: EU6136 | Lloyds R: Tested acc. to BS476 Part 7 | |
| Practical fire behaviour | Self-extinguishing, does not drip, does not spread flames | | | |
| Dimensions and tolerances | In accordance with EN 14304, table 1 | | EU5316 | Tested acc. to EN822, EN823, EN13467 |
| UV resistance | 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 | EU5197 | | |