

**Description:** Flexible closed cell elastomeric insulation, based on synthetic EPDM rubber, specifically suitable for installations that work at high temperatures.

**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:** Fulfils 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 (DOP) is available in accordance with Article 7(3) of Regulation (EU) No 305/2011.

PROPERTY	SPECIFICATION LIMITS	TEST	REMARKS
<b>Temperature Range</b>			
Max service temperature	+150°C (+85°C for tapes)	EU5666	Tested acc. to EN14706 EN14707
Min service temperature	-50°C		
<b>Thermal Conductivity</b>			
Tubes	$\lambda$ 40°C $\leq$ 0.042 W/(m-K) $[36.92+0.125 \cdot \varnothing m + 0.0008 \cdot (\varnothing m-30)^2]/1000$	EU5666	Tested acc. to BS874 Part 2 1986 EN 12667 EN ISO 8497
Sheet	$\lambda$ 40°C $\leq$ 0.045 W/(m-K) $[39.92+0.125 \cdot \varnothing m + 0.0008 \cdot (\varnothing m-30)^2]/1000$		
<b>Water Vapour Diffusion Resistance</b>			
Tubes	$\mu \geq$ 4,000	EU5666	Tested acc. to EN 12086 EN 13469
Sheets	$\mu \geq$ 3,000		
<b>Fire Performance</b>			
Reaction to Fire	Class 1 Euroclass tubes & sheets D-s3, d0 & DL-s3, d0 UL94	GB5904 & EU5666	Tested acc. to BS476 Part 7: 1997 Classified acc. to EN 13501-1 Tested acc. to EN13823 & EN ISO 11925-2
Other fire class	UL approved V-0 Lloyds Register material having low flame spread characteristics	UL: EU5837  Lloyd R: EU6136	UL: Tested acc. to UL94, IEC 60695 and Can/CSA-C.22.2 No.0.17, UL746C  Lloyds R: Tested acc. to BS476 Part 7
Practical fire behaviour	Self-extinguishing, does not drip & does not spread flames		
<b>Other technical features</b>			
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 sheets	1 year	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	

**Convertors and suppliers of die cut gaskets, tape, sheeting, fabrications, machined plastic components, rubber mouldings, extrusions and adhesives.**

