

**Description:** Flexible closed cell insulation material with high resistance to water vapour diffusion, low thermal conductivity and built-in Microban® antimicrobial protection.

**Colour:** Black

**Material Special Information:** Self-adhesive coating; pressure sensitive adhesive coating on modified acrylate basis with mesh structure. Covered with polyethylene film.

**Applications:** Insulation / protection to control condensation, reduce energy loss and protect against frost on pipes, air ducts, vessels (inc elbows, fittings, flanges etc). Suitable for hot and cold water services, chilled water lines, heating systems, air conditioning ductwork and refrigerated pipe work.

**Special Features:** MCCP-Free

**Safety and Environment:** Type III Environmental Product Declaration (EPD). Declaration number "EPD-ARM-20150110-IBB1-DE", Institut Bauen und Umwelt e.V. (IBU).

**Assembly:** Lightweight and flexible. Closed cell structure means no additional vapour barrier is required.

**Remarks:** Declaration of performance 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	+110°C (+85°C when sheet or tape is glued to a flat object)	EU5709	Tested acc. to EN14706 EN14707 and EN14304
Min service temperature	-50°C		
<b>Thermal Conductivity</b>			
Tubes 6-19mm, sheet & tape 3-32mm	$\lambda$ 0°C ≤ 0.033 W/(m-K)	EU5709	Declared acc. to EN ISO 13787  Tested acc. to EN 12667 EN ISO 8497
Tubes 25-32mm	$\lambda$ 0°C ≤ 0.036 W/(m-K)		
<b>Water Vapour Diffusion Resistance</b>			
Tubes 6-19mm; sheets 6-32mm	$\mu$ ≥ 10'000	EU5709	Tested acc. to EN 12086 EN 13469
Tubes 25-32mm	$\mu$ ≥ 7000		
<b>Fire Performance</b>			
Tubes	BL-s3, d0	EU5709	Classified acc. to EN13501-1 Tested acc. to EN13823 EN ISO 11925-2
Sheets & Tape	B-s3, d0		
Surface spread of Flames	Class 1	GB6935 & GB6936	Tested acc. BS 476 Part 7: 1997  Fire Propagation: tested acc. To BS476 Part 6: 1989
Fire Propagation	Total Index Performance (I) ≤ 12 Sub Index (i1) ≤ 6		
Fire Performance acc. to Building Regulations	Class 0		
Fire Class	FM Approved	D5551	Tested acc. to UBC26-3 Class No.4924
Fire resistance on metal pipes	EI30 – EI120	EU5584	Tested acc. to EN 13501-2. Tested acc. to EN1366-3
Marine approval	DNV-GL Approval	EU5928	Tested acc. to IMO 2010 FTP code
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	EU5709	Tested acc. to EN822, EN823, EN13467
UV resistance	Protection against UV-radiation with Armafinish 99 paint. Alternatively use HT/Armaflex, Armaflex Tuffcoat or Arma-Chek Silver.		
Health aspects	ODP & GWP ratings of zero		
Storage & Shelf Life	Self-adhesive tapes, sheets & tubes	1 year	
Antimicrobial behaviour	In-built Microban® antimicrobial protection		No fungal growth observed

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

