

Armaflex Rail ZH & ZH-C Sponge

ARMAFLEX RAIL ZH

Description: Halogen free, flexible closed cell insulation foam with improved fire retardant properties and low smoke generation for railway vehicles.

Material Type: Elastomeric foam based rubber on synthetic rubber.

Colour: Dark Grey

Material Special Information: The pressure sensitive adhesive coating is based on modified acrylate basis with mesh structure and covered with polyethylene foil. Traces of silicone can be found on protection paper/foil used to protect self-adhesive closures.

Applications: Insulation / protection for air ducts and pipes (inc elbows, fittings, flanges etc) of air-conditioning / refrigeration equipment to prevent condensation.

Special Features: Without halogens (chloride, bromide) acc. DIN/VDE 0472, part 815. Fulfils DIN 1988 Parts 200.

Remarks: Armaflex Rail ZH is not designed for applications exposed to sunlight and is not UV stable.

PROPERTY	SPECIFICATION LIMITS	TEST	REMARKS		
Temperature Range					
Max service temperature	+110°C (+85°C when sheet or tape is glued to a flat object)		Tested acc. to EN14706		
Min service temperature	-50°C		EN14707 and EN14304		
Thermal Conductivity					
	$\lambda \ 0^{\circ}\text{C} \le 0.040 \ \text{W/(m-K)} \ [40+0.1 \cdot \vartheta_{\text{m}} + 0.0009 \cdot \vartheta_{\text{m}}^2]/1000$		Declared acc. to EN ISO 13787		
			Tested acc. to EN 12667 & EN ISO 8497		
Water Vapour Diffusion Resistance					
	µ≥ 1000		Tested acc. to EN 12086 & EN 13469		
Fire Performance					
Hazard Levels	HL2, R1	EU5816 EU5857 EU5896 EU6665	Declared acc. to EN45545-2		
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames				
Other technical feat	ures				
Storage & Shelf Life	Self-adhesive tapes, self-adhesive sheets: 1 year	Stored in dry clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C - 35°C)			

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











Armaflex Rail ZH & ZH-C Sponge

ARMAFLEX RAIL ZH-C

Description: Halogen free, flexible closed cell, pre-covered insulation foam with improved fire retardant properties and low smoke generation for railway vehicles.

Material Type: Elastomeric foam based on synthetic rubber with patented high-tech multi-layer coating.

EU patent no. 2 522 502.

Colour: Dark grey with silver metallic look covering.

Material Special Information: The pressure sensitive adhesive coating is based on modified acrylate basis with mesh structure and covered with polyethylene foil. Traces of silicone can be found on protection paper/foil used to protect self-adhesive closures.

Applications: Insulation / protection for air ducts and pipes (inc elbows, fittings, flanges etc) of air-conditioning / refrigeration equipment to prevent condensation.

Special Features: Without halogens (chloride, bromide) acc. DIN/VDE 0472, part 815. Fulfils DIN 1988 Parts 200. The covering offers an excellent durability, even under UV exposure when used for outdoor applications. The insulation system is designed for easy cleaning.

Remarks: When dimensioning the insulation thickness, please calculate with an external surface coefficient of 8 W/(m-K).

PROPERTY	SPECIFICATION LIMITS	TEST	REMARKS		
Temperature Range					
Max service temperature	+110°C (+85°C if sheet or tape is glued to the object with its whole surface)		Tested acc. to EN14706		
Min service temperature	-50°C		EN14707 and EN14304		
Thermal Conductivity	у				
	$\lambda \ 0^{\circ}\text{C} \le 0.040 \ \text{W/(m-K)} [40+0.1 \cdot \vartheta_{\text{m}} + 0.0009 \cdot \vartheta_{\text{m}}^{2}]/1000$		Declared acc. to EN ISO 13787		
			Tested acc. to EN 12667 & EN ISO 8497		
Water Vapour Diffusi	on Resistance				
	µ≥ 10000		Tested acc. to EN 12086 & EN 13469		
Fire Performance					
Hazard Levels	HL3, R1	EU6364 EU5818	Declared acc. to EN45545-2		
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames				
Other technical feat	ures				
Storage & Shelf Life	Self-adhesive tapes, self-adhesive sheets: 1 year	Stored in dry clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C - 35°C)			

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







