

HIGH-PERFORMANCE ACOUSTIC ABSORBER FOR A QUIETER ENVIRONMENT



Effective air-borne sound absorption across a broad frequency range

- // Fibre-free, open-cell material with complex pore geometry
- // Flexible and light weight
- // Additional barrier performance, vibration damping and de-coupling (isolation) properties









TECHNICAL DATA - ARMACOMFORT H

Brief description	ArmaComfort is a unique open-cell sound absorber that offers additional barrier (transmission loss) performance and both vibration damping and de-coupling (isolation) properties. Open-cell elastomeric foam based on synthetic rubber								
Material type									
Product colour range	Black								
Special features	Excellent sound absorption performance.								
Applications	Delivering optimal performance at lower thickness than conventional materials, ArmaComfort is the trusted acoustic absorption materia for HVAC applications (such as the fan-coil units, duct and cabinet linings and chiller systems), heavy industrial and automotive purposes (such as engine component lining and under-bonnet insulation), enclosures as well as in oil and gas facilities.								
Property	Value / Asse	Standard / Test method							
Temperature range									
Service temperature ¹	Min. °C Max. °C								
	-20 85								
Thermal conductivity									
Declared thermal conductivity ²	θm 2				3 ℃			GB/T 10294, ISO 8302	
	λd ≤ [W/(m⋅K								
Flammability									
Flammability of plastic materials	V-0 rating							UL 94	
Physical attributes									
Density	≥ 220 kg/m³						ISO 845		
Acoustic performance									
Noise reduction coefficient	Thickness (mm)	6	10	15	20	25	50	ASTM C423, ISO 354	
	NRC	0.20	0.35	0.45	0.60	0.70	0.95		
Octave band sound absorption coefficient, a	Thickness	6mm	10mm	15mm	20mm	25mm	50mm	ISO 354	
	125 Hz	0.02	0.03	0.05	0.05	0.05	0.20		
	250 Hz	0.02	0.05	0.09	0.13	0.21	0.68		
	500 Hz	0.07	0.11	0.23	0.38	0.60	1.02		
	1000 Hz	0.19	0.40	0.69	0.90	1.00	0.99		
	2000 Hz	0.47	0.78	0.87	0.97	0.95	1.03		
	4000 Hz	0.94	0.95	0.87	0.90	0.97	1.04		

Property	Value / Assessment	Standard / Test method
Absorption coefficient graph	[\alpha] 1.00 0.80 0.60 0.40 0.20 0.00 1000 [Hz]	inculou
Weather and UV resistance	6mm15mm20mm50mm	
Outdoor use	For outdoor application, the outer layer of the material must be protected within 3 days with an adequate covering like ArmaClad Arma-Chek Silver 350 or metal jacketing. For further information, please contact Technical Services.	

ISO 14025

Free of fibre and formaldehyde.

Type III EPD: Declaration number 4789125188.101.1, UL Environment.

Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.

Storage

Health and environment

Environmental Product Declaration (EPD)

Other technical features Adhesion and sealing

Health aspects

¹ For temperatures beyond the identified temperature range, please contact Armacell's Sales team for more information.

 $^{^{2}\,\}mathsf{For}$ reference only.

Width: 1.0m, Length: 1.0m

Thickness [mm]	Width (m)	Length [m]	Content [metric]
6	1	1	8 m²
10	1	1	5 m ²
15	1	1	3 m² 2 m²
20		1	
25	1	1	2 m ²
S50100SHD 50		1	1 m ²
	6 10 15 20 25	6 1 10 1 15 1 20 1 25 1	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Our extensive product portfolio has been designed and developed to meet the specific requirements of our customers and their endusers. Discover how Armacell is making a difference around the world with our products in the following pages.

To offer our customers the best service, we hold stocks of our most popular products. Lead times and form of delivery may vary per product and per country, and may be affected during peak season and holidays. We aim to create open lines of communication with our customers, so please contact Customer Services who can answer questions about our service commitment to you.

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ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

