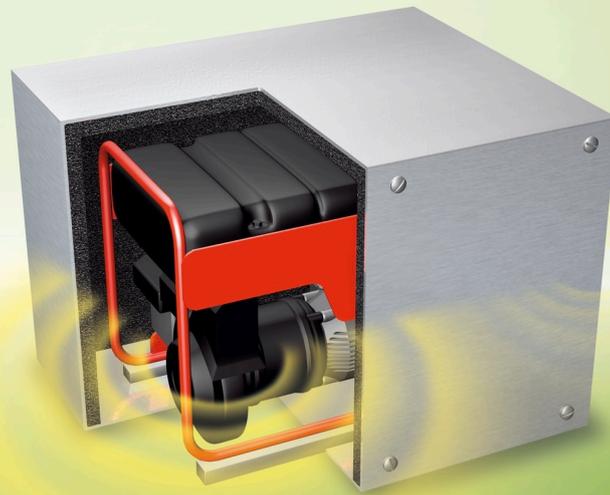


ArmaSound® RD

FOR A SILENT ENVIRONMENT



- Superior acoustic performance
- Flexible and light-weight
- Combined acoustic and thermal properties

Technical Data - ArmaSound RD120

Brief description	Highly-flexible, open-cell acoustic material with complex pore geometry.
Material type	Elastomeric foam based on synthetic rubber.
Colour	black
Material Special Information	Self-adhesive coating (on request): pressure-sensitive adhesive coating on modified acrylate basis with mesh structure. Covered with polyethylene foil.
Applications	Acoustic insulating material with high sound absorption performance for use in a variety different applications, e.g. fan-coil units, duct linings, cabinet linings, chiller systems, enclosures, pipelines etc.

Property	Value/Assessment							Test ^{*1}	Special Remark
Temperature Range									
Temperature Range	max. service temperature + 85 °C								
	min. service temperature -20 °C								
Fire performance									
Reaction to fire	Euroclass E							D 4411	Tested according to EN ISO 11925-2
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames								
Acoustic Performance									
Sound absorption	Practical sound absorption coefficient α_p	Octave band absorption coefficient \leq			0,800			EU 2555	Tested according to EN ISO 20354
Weighted sound absorption coefficient α_w	Depending on material thickness.								Calculated according to EN ISO 11654
Calculated broadband insertion loss	a_s / Thickness	125	250	500	1.000	2.000	4.000		
	10	0,010	0,030	0,120	0,360	0,700	0,760		
	15	0,020	0,090	0,290	0,720	0,810	0,760		
	20	0,030	0,120	0,450	0,770	0,750	0,760		
	25	0,050	0,190	0,610	0,740	0,750	0,780		
	50	0,150	0,530	0,710	0,730	0,770	0,760		
	Thickness	10 mm	15 mm	20 mm	25 mm	50 mm			
	α_w^2	0.20 (H)	0.35 (MH)	0.40 (MH)	0.50 (MH)	0,750			
Class	E	D	D	D	C				
NRC ³	0,300	0,450	0,500	0,550	0,700				
Other technical features									
Density	$\geq 100 \text{ kg/m}^3$								Tested according to producer's own method
Health aspects	Dust and fibre free								
Storage & Shelf life	Self-adhesive sheets: 1 year								Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area.

Technical Data - ArmaSound RD240

Brief description	Highly-flexible, hydrophobic, open-cell acoustic insulation material with complex pore geometry.
Material type	Elastomeric foam based on synthetic rubber.
Colour	Black
Product Range	Sheets, 10, 15, 20, 25, 30, 40 and 50 mm thickness / width 500 and 1000 mm / length 1000 and 2000 mm
Applications	In general applications ArmaSound® RD240 is used as acoustic insulation material with excellent sound absorption performance in a variety of different applications, e.g. fan-coil units, duct linings, cabinet linings, chiller systems, enclosures, pipelines. In industrial applications ArmaSound® RD240 is used as an important component of Arma-Sound Industrial Systems to provide acoustic insulation on industrial pipework and vessels ensuring reduction of sound transmission. Further industrial application area is sound absorption performance of enclosures.
Special Features	Excellent sound absorption performance.
Assembly	For industrial applications it is recommended to consult the ArmaSound Industrial Systems Application manual and other relevant Armacell installation instructions and application manuals. Please consult our Customer Service Centre.

Property	Value/Assessment							Special Remark
Temperature Range								
Temperature Range	max. service temperature						+85 °C	
	min. service temperature						-20 °C	
Thermal Conductivity								
Thermal Conductivity	ϑ_m		0				°C	Tested according to EN 12667 (Equivalent methods ASTM C177 and C518)
	λ		≤		0,062		W/(m · K)	
Fire performance								
Other Fire Class ¹	BS 476 Part 7		Class 1				BS 476 Class 1	
	ASTM E84		< 25 Flame Spread Index				Approved by Lloyds	
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames							
Acoustic Performance								
								Tested according to EN ISO 354 Rated according to EN ISO 11654
								Tested according to ISO 354. rated according to EN ISO 11654
Calculated broadband insertion loss	a_g / Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Tested according to ISO 354. Rated according to EN ISO 11654
	6 mm	0,010	0,030	0,070	0,180	0,390	0,740	
	10 mm	0,010	0,040	0,150	0,460	0,870	0,940	
	15 mm	0,030	0,110	0,380	0,800	1,030	0,890	
	25 mm	0,090	0,280	0,770	1,030	0,940	0,900	
	Thickness	6 mm	10 mm	15 mm	25 mm			
	α_w	0.15 (H)	0.25 (H)	0.40 (MH)	0.60 (MH)			
	Class	E	E	D	C			
NRC (acc. to ASTM C 423)	0,150	0,400	0,600	0,750				
Other technical features								
Density	220 to 360 kg/m ³							Tested according to ISO 845, ASTM D1622
Tear strength	0.4 - 1.4 kN/m							Tested according to ISO 34-1
Tensile strength	MD 70 to 190 kPa							Tested according to ISO 1798
Elongation	MD 50 - 90 %							Tested according to ISO 1798
Health aspects	Fibre dust free							
Storage & Shelf life	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.							
Acoustic Insertion Loss	When used as part of a system ArmaSound RD 240 complies to ISO 15665 Classes A to C and Shell DEP 31.46.00.31-Gen Class D							Tested according to ISO 3741 and ISO 15665 (equivalent method ASTM E1222)

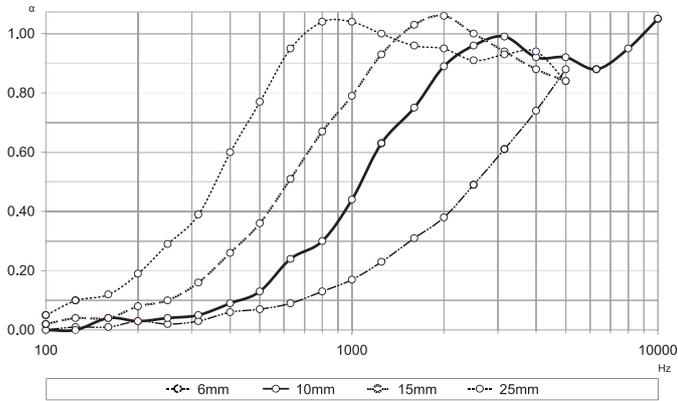
Technical Data - ArmaSound RD240

Water absorption¹ 4.4 %

Tested according to AGI Q 136

1. Based on single test results which are not monitored in regular frequency. Can be used for information only.

Typical Sound Absorption Behaviour of ArmaSound RD 240 (ISO 354)



Typical Sound Absorption Values of ArmaSound RD 240

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Armaflex 520 or Armaflex HT 625 Adhesive must be used to guarantee proper installation. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct. However, Armacell cannot guarantee that the data are 100 % accurate. Furthermore, minor deviations in colour, quality and dimensions are unavoidable and in most cases do not influence the performance of the product. Armacell expressly disclaims any and all liability in relation to any results obtained or arising from any use of the product or reliance on such information. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the goods described or the information provided herein. All the statements and technical information within this document should be read in conjunction with the customer's own specification. It is the responsibility of the recipient to inform all involved parties about the content of these documents. The described and recommended methods should be strictly followed. If there is a requirement to deviate from our recommendations, please contact us in advance to discuss possible suitable alternatives. Armacell will not be liable for any claim resulting from a failure to observe our specification or any other agreed solutions and from non-observance of the customer's specification.

ArmaSound RD120 sheets



Code	Thickness [mm]	Width [m]	Length [m]	m ² /carton
ASD-120-06	6	1.0	1.0	8
ASD-120-10	10	1.0	1.0	5
ASD-120-15	15	1.0	1.0	3
ASD-120-20	20	1.0	1.0	2
ASD-120-25	25	1.0	1.0	2

Remark Further dimensions and insulation thicknesses on request.

ArmaSound RD120 sheets self-adhesive



Code	Thickness [mm]	Width [m]	Length [m]	m ² /carton
ASD-120-06/A	6	1.0	1.0	8
ASD-120-10/A	10	1.0	1.0	5
ASD-120-15/A	15	1.0	1.0	3
ASD-120-20/A	20	1.0	1.0	2
ASD-120-25/A	25	1.0	1.0	2

Remark Further dimensions and insulation thicknesses on request.

ArmaSound RD240 sheets



Code	Thickness [mm]	Width [m]	Length [m]	m ² /carton
ASD-240-06	6	1.0	1.0	8
ASD-240-10 •	10	1.0	1.0	5
ASD-240-15 •	15	1.0	1.0	3
ASD-240-20	20	1.0	1.0	2
ASD-240-25 •	25	1.0	1.0	2

Remark Further dimensions and insulation thicknesses on request.

• Item not in stock. Delivery on request. [MTO]

ArmaSound RD240 sheets self-adhesive



Code	Thickness [mm]	Width [m]	Length [m]	m ² /carton
ASD-240-06/A	6	1.0	1.0	8
ASD-240-10/A	10	1.0	1.0	5
ASD-240-15/A	15	1.0	1.0	3
ASD-240-20/A	20	1.0	1.0	2
ASD-240-25/A	25	1.0	1.0	2

Remark Further dimensions and insulation thicknesses on request.

