

INSTALL IT. ENJOY QUIETNESS.

ArmaSound RD240

Optimal performance at lower thickness

- // Excellent sound absorption behaviour
- // Highly hydrophobic, open-cell structure designed to resist water ingress
- // Air-flow resistivity and complex pore geometry for maximum acoustic benefit
- // Easy application and low maintenance
- // Designed for use in demanding environments



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TECHNICAL DATA - ARMASOUND RD240

Brief description	Highly flexible, h	ydrophobic, open-cell acous	tic insulation material with c	omplex pore geometry.					
Material type	Elastomeric foam based NBR/PVC synthetic rubber.								
Product colour range	Black								
Special features	Excellent sound absorption performance.								
Product range	Sheets, 10, 15, 20								
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 ArmaSound 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.								
Installation	Please refer to th	tact Technical Services.							
Remarks	Certificate of Fire								
	- /A								
Property	Value / Assessn	Standard / Test method							
Temperature range									
Service temperature	Min. °C	Min. °F	Max. °C	Max. °F	EN 14706, EN 14707, EN				
	-20	-4	85	185	14504				
Thermal conductivity									
Declared thermal conductivity	θm 0 °C (32 °F)				EN 12667 ¹				
	$\lambda d \leq [W/(m \cdot K)]$		0.062	0.062					
	k ≤ [Btu-in/(h-ft²-								
Fire Performance and Approvals	3								
Surface spread of flame	Class 1	BS 476 Part 7							
Surface burning characteristics	< 25 flame spread	ASTM E84							
Fire performance									
Practical fire behaviour	Self-extinguishing								
Resistance to water									
Water absorption ²	≤ 10% by volume a	AGI Q 136							
Physical attributes									
Density	220 to 360 kg/m³ 13.7 to 25.5 lb/ft³	ISO 845, ASTM D1622							
Mechanical properties									
Tensile strength	(MD) 70 to 190 kPa 10.2 to 27.6 psi	ISO 1798 ³							
Elongation	50 to 90 %	ISO 1798 ³							
Tear strength	0.4 to 1.4 kN/m 2.3 to 8.0 lbf/in	ISO 34-1 ⁴							
Acoustic performance									
Weighted sound absorption coefficient, aw ²	6 mm: 0.15 (H) Cla 10 mm: 0.25 (H) C 15 mm: 0.40 (MH) 25 mm: 0.55 (MH)	ISO 354, EN ISO 11654							

Property	Value / Assessme	Standard / Test method								
Noise reduction coefficient ²	Thickness (mm)	6	10	15	25	ASTM C423				
	NRC	0.15	0.40	0.60	0.70					
Octave band sound absorption coefficient, \mathfrak{a}^2	Thickness	6mm	10mm	15mm	25mm					
	125 Hz	0.01	0.01	0.03	0.09					
	250 Hz	0.03	0.04	0.11	0.28					
	500 Hz	0.07	0.15	0.38	0.77					
	1000 Hz	0.18	0.46	0.80	1.03					
	2000 Hz	0.39	0.87	1.03	0.94					
	4000 Hz	0.74	0.94	0.89	0.90					
Absorption coefficient graph	0,8 0,6 0,4 0,2	200	400 800	1600	6 mm 10 mm 15 mm 25 mm	Hz]				
Weather and UV resistance Weather resistance	layer of the materia	l must be protecte	ed with an adequate co	vering like Arma-Chel	ption applications, the out					
Health and environment	Jei vices.									
Health aspects	Fibre dust free									
Other technical features										
Additional remarks	For environmental conditions outside the given range please contact Technical Services.									
Adhesion and sealing	ArmaFlex Adhesive 520 or Adhesive HT625 shall be used for reliable adhesion of joints and seams. In some configurations 19 mm wide stainless steel bands with wing clips (or blind rivets) shall be used for fixing and final securing.									
Application conditions ⁵	Application tempera Maximum relative h									
Shelf life ⁶	Max. 3 years									
 Storage	Material shall be sto									

¹Equivalent methods ASTM C177 and C518.

²Based on single test results. Can be used for information / reference only.

³Type 1 sample.

⁴Minimum value in Machine Direction (MD) and in Cross Direction (CD). Method B, procedure (b), angle test piece with a nick.

⁵Application temperature (temperature of installation) refers to the ambient temperature during application and the surface temperature of the substrate to which the product is installed.

^{*}Shelf life (maximum storage time) is limited to ensure that only currently manufactured products are installed on projects. This limitation is restricted solely to storage of the product and does not affect the lifetime of product after it has been installed.

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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 27 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.

