

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







TECHNICAL DATA - ARMASOUND RD240

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Brief description	Highly flexible, hydrophobic, open-cell acoustic insulation material with complex 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, and 25mm 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 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 performance of enclosures.					
Installation	Please refer to the ArmaSound Industrial Systems application manual before installation. Please contact Technical Services.					
Remarks	Certificate of Fire Approval by Lloyd's Register (Class 1, BS 476 part 7).					
Property	Value / Assessment					Standard / Test method
Temperature range						
Service temperature	Min. °C	Min. °F	I	Max. °C	Max. °F	EN 14706, EN 14707, EN 14304
	-20	-4	5	85	185	
Thermal conductivity						
Declared thermal conductivity	θm		(0 °C (32 °F)	EN 126671	
	λd < [W/(m·K)]		(0.062		
	k < [Btu-in/[h-ft²-°F]]					
Fire Performance and Approvals	;					
Surface spread of flame	Class 1					BS 476 Part 7
Surface burning characteristics	< 25 flame spread index					ASTM E84
Fire performance						
Practical fire behaviour	Self-extinguishing,	does not drip, doe	s not spread flames			
Resistance to water						
Water absorption ²	≤ 10% by volume after 24 hours					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) Class E 10 mm: 0.25 (H) Class E 15 mm: 0.40 (MH) Class D 25 mm: 0.55 (MH) Class C					ISO 354, EN ISO 11654
Noise reduction coefficient ²	Thickness (mm)	6	10	15	25	ASTM C423
	NRC	0.15	0.40	0.60	0.70	

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¹Equivalent methods ASTM C177 and C518.

 $^{\rm 2}\,{\rm Based}$ 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. ⁶Shelf 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 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.



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