

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

Brief description	Highly flexible,	hydrophobic, open-c	ell acoustic insulation	n material with com	plex pore geometry.	
Material type	Elastomeric foa	nm based NBR/PVC s	synthetic rubber.			
Product colour range	Black					
Special features	Excellent sound	d absorption perform	ance.			
Product range	Sheets, 10, 15, 2	20, and 25mm thickn	ess / width 500 and 1	000 mm / length 100	00 and 2000 mm.	
Applications	variety of differe applications Ari	ent applications, e.g. maSound RD240 is u vork and vessels ens	fan-coil units, duct li sed as an important o	nings, cabinet lining component of Armas	gs, chiller systems, enclos Sound Industrial Systems	l absorption performance in a sures, pipelines. In industrial to provide acoustic insulation on on area is sound absorption
Installation	Please refer to	the ArmaSound Indu	ıstrial Systems applic	ation manual before	e installation. Please cont	act Technical Services.
Remarks	Certificate of Fi	re Approval by Lloyd	's Register (Class 1, I	BS 476 part 7).		
Property	Value / Assess	ment				Standard / Test method
Temperature range						
Service temperature	Min. °C	Min. °F	M	1ax. °C	Max. °F	EN 14706, EN 14707, EN
	-20	-4	8	5	185	14304
Thermal conductivity						
Declared thermal conductivity	θm		0	°C (32 °F)		EN 12667 ¹
	$\lambda d \leq [W/(m \cdot K)]$		0	.062		
	k ≤ [Btu-in/(h-ft	²-°F)]	0	.430		
Fire Performance and Approva	ls					
Surface spread of flame	Class 1					BS 476 Part 7
Surface burning characteristics	< 25 flame sprea	d index				ASTM E84
Fire performance						
Practical fire behaviour	Self-extinguishir	ng, does not drip, doe	es 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 kF 10.2 to 27.6 psi	Pa				ISO 1798³
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) C 10 mm: 0.25 (H) (15 mm: 0.40 (MH 25 mm: 0.55 (MH	Class E I) Class D				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	

Octave band sound absorption	Thickness	6mm	10mm	15mm	25mm	ISO 354, EN ISO 11654	
coefficient, a²	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 mate	erial must be protect	ted with an adequate co	vering like Arma-Che	ption applications, the out k R, metal jacketing or ation please contact Techi		
Health and environment							
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 temperature: +5 °C to +35 °C (+41 °F to +95 °F) Maximum relative humidity: 80%						
Shelf life ⁶	Max. 3 years						
Storage	Material shall be	e stored indoors, in c	lean and dry conditions	, away from direct sur	nlight.	 -	

Standard / Test method

Property

Value / Assessment

¹ Equivalent methods ASTM C177 and C518.

 $^{^{\}rm 2}\mbox{Based}$ 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.

Sheet - standard. Black

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
ASD-240-06	6	1	1	8 m²
ASD-240-10	10	1	1	5 m²
ASD-240-15	15	1	1	3 m²
ASD-240-20	20	1	1	2 m²
ASD-240-25	25	1	1	2 m ²
Other information				
Remarks	Primary content available	e as sheet(s) packed in carton.		

Sheet - self-adhesive. Black

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]	
ASD-240-06/A	6	1	1	8 m²	
ASD-240-10/A	10	1	1	5 m²	
ASD-240-15/A	15	1	1	3 m²	
ASD-240-20/A	20	1	1	2 m²	
ASD-240-25/A	25	1	1	2 m²	
Other information					
Remarks	Primary content available as sheet(s) packed in carton.				

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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.

