

ArmaSound® RD

HIGH PERFORMANCE ACOUSTIC INSULATION FOR A QUIETER 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	Super-vision*2	Special Remark
Temperature Range				
Temperature Range	max. service temperature +110 °C (+85 °C flat surfaces)			
Temperature Range	min. service temperature -20 °C			
Thermal Conductivity				
Thermal Conductivity	Øm	[°C]	EU 3665	Tested according to EN ISO 12667
	λ ≤ 0,044	[W / (m · K)]		
Fire performance				
Reaction to fire	Normally flammable Euroclass E British Standard Class 1	D 4411	○	Tested according to EN ISO 11925-2
Other Fire Class	UL94, Flammability V-0	EU 2557		In accordance with test procedure of UL94, section 8
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames			
Acoustic Performance				
Sound absorption	Practical sound absorption coefficient	Octave band absorption ≤ 0.8 ap coefficient	EU 2555	Tested according to EN ISO 20354
Weighted sound absorption coefficient αw	Depending on material thickness.			Calculated according to EN ISO 11654
Other technical features				
Density	≥ 100 kg/m³			Tested according to producer's own method
Chemical behaviour	Limited			
UV resistance	Limited			
Tensile strength	68 - 92 kPa	EU 3666		Tested according to ISO 1798
Elongation	36% (10mm); 40% (25mm)	EU 3667		Tested according to ISO 1798
Health aspects	Dust and fibre free			
Storage & Shelf life	Self-adhesive sheets: 1 year			

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

*2 ●: Official supervision by independent institutes and /or test authorities
○: Own in-factory quality monitoring

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, 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	Super-vision*2	Special Remark
Temperature Range				
Temperature Range	max. service temperature +110 °C (+85 °C flat surfaces)			
Temperature Range	min. service temperature -20 °C			
Thermal Conductivity				
Thermal Conductivity	Øm	0	[°C]	EU 3664
	λ ≤	0,052	[W / (m · K)]	
Fire performance				
Reaction to fire	Normally flammable Euroclass British Standard	E Class 1	D 4225	○ Tested according to EN ISO 11925-2
Other Fire Class	UL94, Flammability V-0		EU 2556	In accordance with test procedure of UL94, section 8
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames			
Acoustic Performance				
Sound absorption	Practical sound absorption coefficient	Octave band absorption ≤ 1.0 ap coefficient	EU 2554	Tested according to EN ISO 20354
Weighted sound absorption coefficient αw	Depending on material thickness.			Calculated according to EN ISO 11654
Other technical features				
Density	≥ 220 kg/m³			Tested according to producer's own method
Chemical behaviour	Limited			
UV resistance	Limited			
Tensile strength	190 kPa		EU 4715	Tested according to ISO 1798
Elongation	54%		EU 4518	Tested according to ISO 1798
Health aspects	Dust and fibre free			
Storage & Shelf life	Self-adhesive sheets: 1 year			
Wasseraufnahme	1,1 Vol.-% (Platte 10 mm) 1,3 Vol.-% (Platte 25 mm)		EU 2810	Eigenprüfung gemäß AGI Q 136

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

*2 ●: Official supervision by independent institutes and /or test authorities
○: Own in-factory quality monitoring

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.

2012 © Armacell Enterprise GmbH – Subject to alterations without prior notice - Our general conditions of sales & delivery shall apply

Lined area for notes

2012 © Armacell Enterprise GmbH – Subject to alterations without prior notice - Our general conditions of sales & delivery shall apply

Armacell GmbH
Robert-Bosch-StraÙe 10 · 48153 Münster
Telefon +49 (0) 251 / 76 03-0 · Telefax +49 (0) 251 / 76 03-448
www.armacell.com · info@armacell.com

