SONOTIZ
Thermal & Acoustic Insulation

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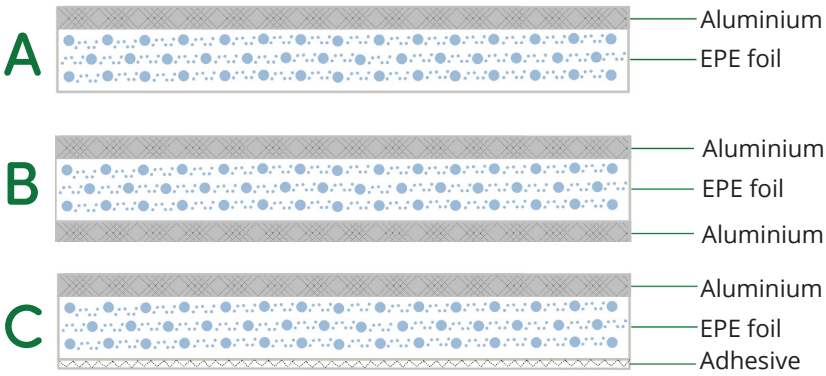
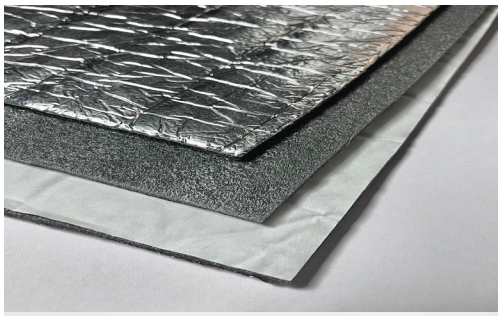
Technical Specification

DOC. NO. 016

PRODUCT NAME:

SonoFol PE A | B | C





Data:	Aluminium 9 µm	
	Units	SonoFol PE
Thickness	[mm]	6±0.15%
Weight	[kg/roll]	9.5±5%
Width	[m]	1
Length	[m/roll]	15
Surface	[m²/roll]	15

SONOFOL PE **C** is composed of a layer of expanded polyethylene (EPE) laminated with a 9-micron aluminum foil on one side, providing excellent protection and performance. The opposite side of the material is self-adhesive, allowing for easy installation and secure attachment to various surfaces.

- **Aplicații:**

Hydrophobic Properties: The 9-micron aluminum foil layer on SONOFOL-PE provides excellent resistance against moisture, making it ideal for applications where preventing or controlling water infiltration is desired.

Vibration Damping: The intrinsic characteristics of the EPE foil combined with the self-adhesive part of SONOFOL-PE help absorb and dampen vibrations, reducing noise levels and improving the overall comfort of ventilation systems.

Thermal Insulation: The aluminum foil layer acts as an efficient thermal barrier, minimizing heat transfer and enhancing energy efficiency in the ventilation system.

Main Function: Thermal insulation, reflectivity, and vibration damping.

Processing: The surface must be carefully cleaned of dust, grease, oil, and water. Adequate adhesion across the entire surface must be ensured. The bonding strength is directly dependent on the processing pressure.

Storage Conditions: Recommended storage time: 6 months.

Delivery Forms: Rolls packaged in 1-meter width and 15-meter length. The sizes of each layer can be adjusted according to customer requirements.

Technical data- Adhesive

90° peel strength (N/25mm - NF EN ISO 29862)	**Steel**	**ABS**	**Polypropylene**
After 24 hours	26	25	5
Tack (N/25mm - FTM9)	**Steel**	**ABS**	**Polypropylene**
After 1 min	16	-	-
Shear strength (NF EN ISO 29863 - 1kg sur 25x25mm)	**Steel**	**ABS**	**Polypropylene**
At 22°C	>100h	-	-
At 50°C	20h	-	-
Additional features			
Temperature range	- 40°C/+ 120°C		
European directives	2000/53/CE, 2002/95/CE, REACH		
Formaldehyde free	YES		

Recommendations for use:

The bonding surface must be clean and dry, free from grease, silicon, or dust. At the time of application, both the adhesive side and the surface to be bonded should be at a temperature between 18 and 30°C. The adhesive should be applied with a pressure of 0.02 MPa for 2 seconds. Then, a period of 24 hours is required to achieve optimal bonding or before conducting any tests.

Product features:

- Good adhesion and cohesion on all types of surfaces (both high and medium surface energy).
- Excellent resistance to temperature, UV, and aging.
- Outstanding conformability.
- This low VOC content product meets the latest market requirements, especially in the automotive and construction sectors, and has low emissions of volatile organic compounds and a low odor level.
- Silicone-coated polypropylene liner providing conformability and tear resistance.

Technical data- Aluminium

Parameter	Unit	Value
Thickness	µm	9
Density	g/cm^3	2.70
Melting Point	°C	660
Tensile Strength	MPa	90-110
Tearing Force	N/mm	20-30
Elongation	%	2-5
UV Resistance	hrs	Up to 200
Surface Tension	dyne/cm	30-40

Avoid physical damage or puncturing; the material is relatively fragile due to its thickness.