SOUND INSULATION / FLEXIBLE BARRIER

3 mm Mass Loaded Vinyl

A slim, dense barrier for airborne sound control

Anika Mass Loaded Vinyl (MLV) is a flexible, high-density PVC-based barrier with mineral fillers. It is designed to reduce airborne sound transmission by adding mass within walls, ceilings and acoustic enclosures.

The 3 mm profile integrates into build-ups where space is limited. The flexible sheet can be cut to size and installed with compatible lining systems.

3 mm nominal thickness
1 m × 5 m roll | 5 m² coverage



PRODUCT SPECIFICATIONS

PROPERTY	SPECIFICATION
Product / structure	Mass Loaded Vinyl (MLV); flexible, dense barrier sheet
Nominal thickness	3 mm
Standard roll size (W × L)	1,000 × 5,000 mm
Coverage per roll	5 m²
Nominal surface mass / roll mass*	Approx. 5 kg/m² / approx. 25 kg per roll
Composition	High-density PVC-based composite with mineral fillers
Appearance	Black barrier with grey facing, as shown
Packaging	Roll supply; export carton or pallet packing as agreed

* Mass values are nominal supplier specifications, not laboratory measurements in the supplied reports. Final configuration and packing are confirmed on quotation.

TYPICAL APPLICATIONS

Walls and ceilings: apartments, hotels, offices, studios and cinemas.

Enclosures and services: machinery enclosures and duct or pipe lagging within an engineered noise-control system.

INSTALLATION & HANDLING

Cut to size and secure with suitable mechanical fixings or a compatible adhesive specified for the assembly. Maintain a continuous barrier; seal joints, edges and service penetrations. Support the sheet adequately and protect it from punctures.

Performance depends on the complete assembly, detailing and installation. No STC, Rw or impact-sound rating is declared in this datasheet; see the test notes on page 2.

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TEST DATA / DOCUMENTATION NOTES

Test results & scope

3 mm MLV | Summary of the supplied test documentation

FLAMMABILITY

V-0 requirements met

UL 94:2023 vertical burning - room-temperature sample test, as reported. [F]

TEST PARAMETER	REPORTED RESULT	V-0 LIMIT IN REPORT
Afterflame times t1 / t2, samples 1-5	3/1, 5/1, 0/4, 1/7, 3/2 s	≤10 s each
Total afterflame time (t1 + t2), 5 samples	27 s	≤50 s
Afterflame + afterglow (t2 + t3), samples 1-5	2, 2, 4, 7, 4 s	≤30 s each
Flame / glowing combustion reaching clamp	No, all 5 samples	No
Cotton ignition from burning particles / drips	No, all 5 samples	No

Scope: the 2025 report lists model 1.2-2.0-3.0 and a room-temperature result. The separate 2024 report specifies a 125 × 13 × 2.8 mm specimen and room-temperature conditioning only. Results apply to the described samples and test conditions; they do not establish UL product listing or a building-assembly fire classification. [F, E]

ACOUSTIC PERFORMANCE

The supplied acoustic report identifies a 1 m × 5 m × 3 mm sample. It contains a 35 dB entry, but the acoustic metric labels, frequency table and plotted curve are inconsistent. A single-number rating or frequency curve is therefore not declared in this datasheet pending clarification by the issuing laboratory. [A]

ENVIRONMENTAL INFORMATION

The file titled “2024 MLV Acoustic Material Environmental Report” contains vertical-burning test results rather than environmental chemical or emissions data. No VOC, RoHS, REACH or asbestos-free claim is established by the supplied documents. [E]

SOURCE DOCUMENTS

[F] Anika Flame retardant test report of MLV.pdf. CTI, report A2240207284201C, dated 22 Apr 2025; sample information on p. 1 and results on p. 3.

[A] 3mm MLV soundproof report.pdf. National Research Center of Testing Techniques for Building Materials, report WT2021A04A00126, issued 20 Dec 2021; sample and result pages.

[E] 2024 MLV Acoustic Material Environmental Report.pdf. CTI, report A2240207284201C, dated 22 Apr 2024; specimen / conditioning on p. 3 and results on p. 4.

Product description and supply format: supplier technical datasheet dated 29 Jun 2026. Dimensions: the 3 mm sample in [A]. Nominal mass values: supplier commercial specifications.

This datasheet summarizes supplier specifications and the provided documentation. It is not a laboratory-issued test report. Project requirements should be checked against the selected material and complete installed system.