

SORBERBARRIER ML-AGC

high-performance absorber barrier composite

Sorberbarrier ML-AGC is a unique, multilayered noise control product that offers both noise transmission loss and noise absorption. The composite is comprised of two layers of absorbing foam - Sorbermel, a melamine resin based foam and Sorberfoam, a combustion modified polyurethane foam. The absorptive foam layers are bonded together with an inlay of a foil layer and a flexible mass barrier layer, Wavebar. An aluminium foil covered glass cloth facing is laminated to the surface of the melamine foam layer.

The melamine backbone exhibits excellent resistance to hydrolysis and combustion. The use of an aluminium foil covered glass cloth face provides additional protection to the foam from mechanical stress and dirt, oil and liquid ingress. The additional inner aluminium foil layer provides excellent vapour and fire barrier properties.

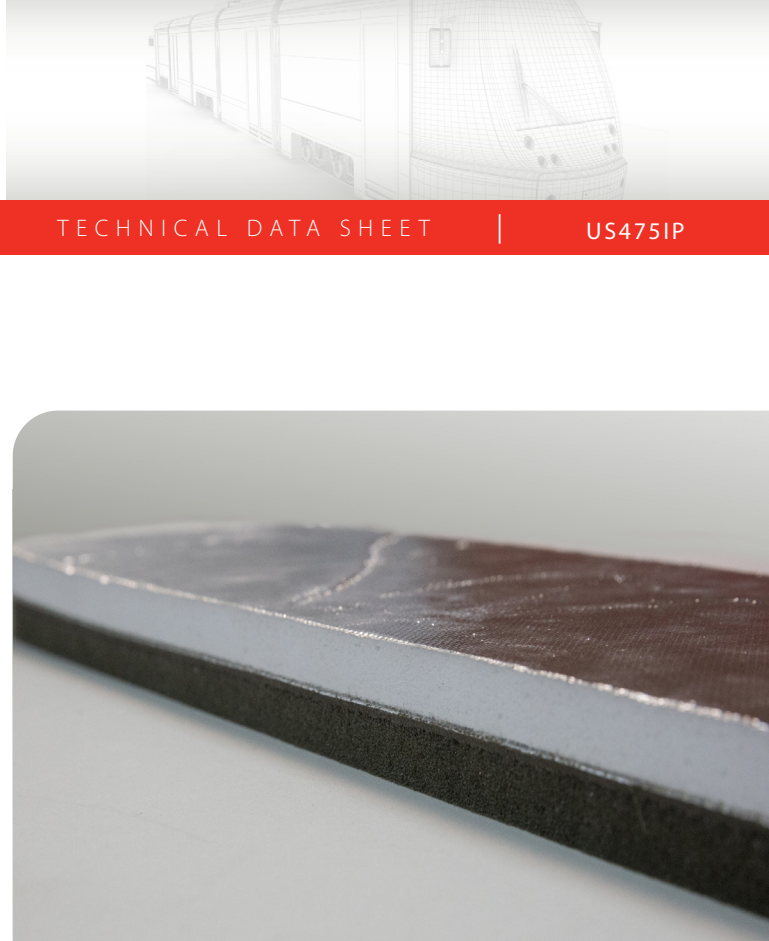
Insertion of the mass barrier between two layers of absorbing foam keeps the barrier separate from the structure to which it is bonded, allowing it to remain flexible thus enhancing noise transmission loss. Altering the thickness of foam that separates the noise barrier from the structure can improve Wavebar's performance in some frequencies without a substantial increase in overall weight.

Sorberbarrier ML-AGC combines the superior performance of the flexible mass barrier, Wavebar, together with the absorption properties of the foam layers, Sorbermel and Sorberfoam.

The foam layers combined with a mass barrier provides effective noise reduction, making it a highly versatile product for controlling noise.

SPECIFICATIONS

Colour	Light grey (Sorbermel), Grey (Sorberfoam), Silver (AGC Facing)
Available	Sheet size: 1.3 m x 2.5 m (4.3 x 8.2 ft) Total thickness: 25 mm (1 in)
	Custom sizes available depending on MOQ



applications

- Cavity space of locomotive and rolling stock
- Power generation units and containerised generator sets
- Additional thermal and acoustic insulation for air-conditioning
- Engine compartments and firewalls of cars, trucks, buses and construction machinery
- Machinery and equipment enclosures
- Pool and spa motor enclosures
- Whitegoods industry
- General enclosures

features

- Multifunction acoustic product - absorber and barrier
- No ozone-depleting substances generated during manufacture
- Formaldehyde, phenolic resins and irritating fibres not used during manufacture
- The Sorberfoam range is engineered to resist degradation (foam rot) more than traditional acoustic foam
- Low spread of flame surface
- Available as kits (depending on MOQ) - Quick and easily installed in difficult places
- Easy to cut, adhere or mechanically fasten into position
- Can be constructed with other decoupling layers such as Sorberpoly and Sorbermel

PRODUCT SPECIFICATIONS

Product	Total thickness	Construction Absorptive melamine layer (mm)/Mass barrier (kg)/ Decoupler PU foam (mm)	Sheet size*	Operating Temperature range
Sorberbarrier ML AGC 25/5 kg (1 lb)	25 mm (1 in)	12 / 5 / 12 (0.5 in / 1 lb / 0.5 in)	1.3 m x 2.5 m (4.3 x 8.2 ft)	-40 °C to 100 °C (-40 °F to 212 °F) (continuous) -40 °C to 120 °C (-40 °F to 248 °F) (Intermittent)

Tolerances: Weight: ±0.5 kg; Thickness: ±3 mm; Length and Width: -0 to +5mm

*Supplied untrimmed. Some surface coverings such as foils, films or fabric may overhang the useable width.

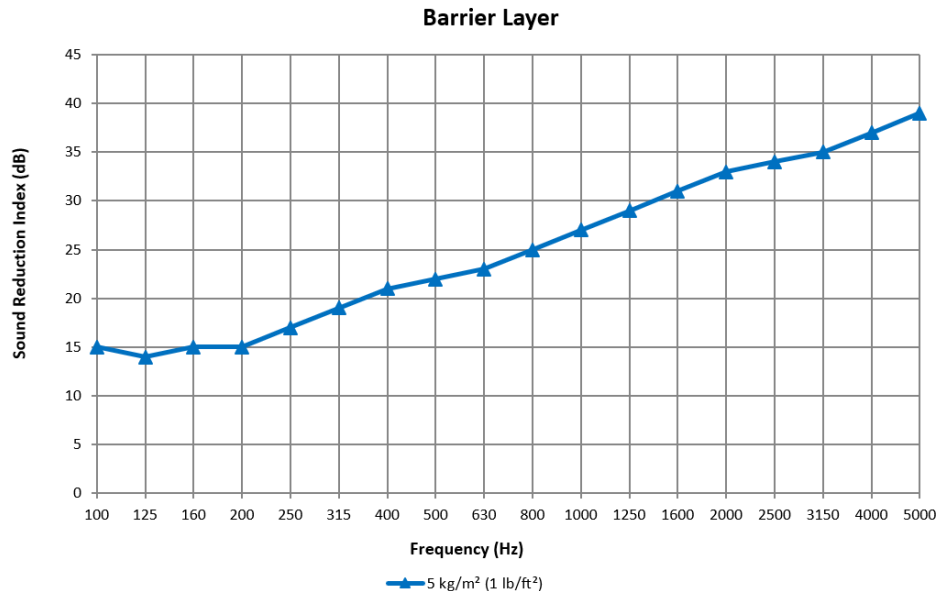
Above product is available with or without adhesive backing. Please consult your local Pyrotek representative for more information.

MATERIAL PROPERTIES

Test method	Property	Report	Results
EN 45545 (ISO 5658-2)	Spread of flame	516957	R1, R7, HL3
EN 45545 (ISO 5659-2 : 50 kWm ²)	Smoke generation (optical density)		
EN 45545 (ISO 5660-1 : 50 kWm ²)	Heat release rate by cone calorimeter		
FMVSS-302	Flammability of interior materials	08613PH	Complies to the requirements of US (DOT) Department of transportation for occupant compartments of motor vehicles

ACOUSTIC PERFORMANCE

Frequency (Hz)	5 kg/m ² (1 lb/ft ²)
100	15
125	14
160	15
200	15
250	17
315	19
400	21
500	22
630	23
800	25
1000	27
1250	29
1600	31
2000	33
2500	34
3150	35
4000	37
5000	39
Rw	26
STC	26



Tested to ASTM E90-09 at Riverbank Acoustical Laboratories, USA
Report Number: TL18-642

For further information
and contact details,
please visit our website
pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights.
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