



VSC Acoustical Foam Materials

MC5259 – Metalized Mylar Urethane Foam

This material is MC5200 flame laminated to a thin metalized Mylar facing which is specifically designed to prevent liquid ingress and to improve UV resistance at the outer foam face. As the facing is non-permeable, the absorption of higher frequencies (1KHz and above) is seriously affected but absorption of lower frequencies is improved. This makes the material ideal in reducing reverberative noise in aspirated engine, reciprocating compressor and R-P blower applications. The marine and mobile generator markets, in particular, like this product because it prevents fuels getting into the foam and because it has very high light-reflective characteristics.

This product has a proven history of noise control success in the following applications:

Marine Engine Rooms

Off Highway Vehicles

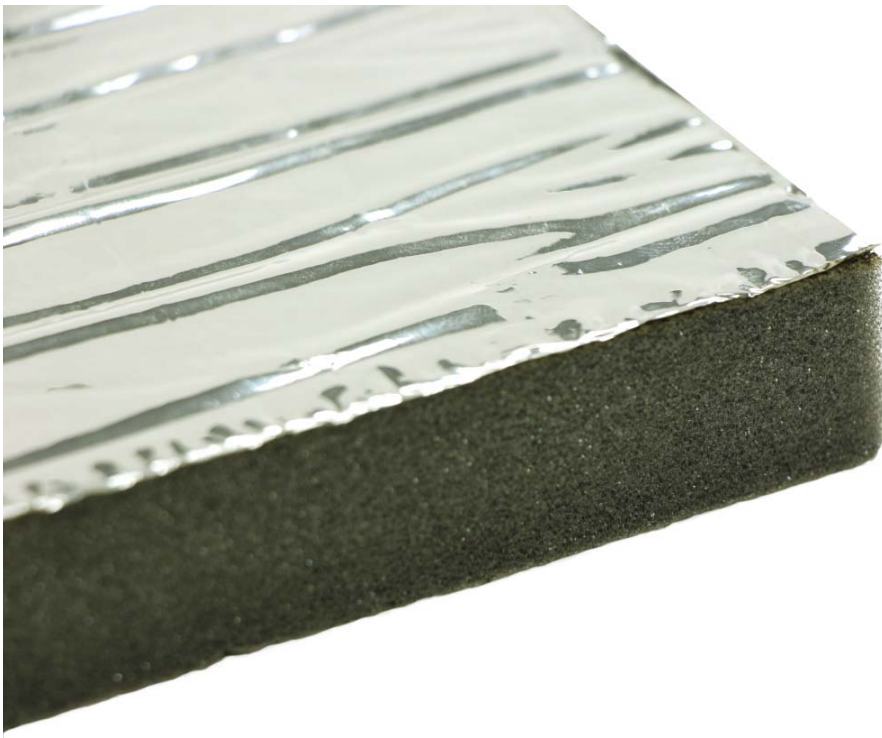
Lawn & Garden Equipment

Small Engine Housings

Household Appliances

R.V. Application

Data Processing Equipment



Physical Properties

FOAM (ASTM D 1564)

Type:

-Flexible polyester open cell urethane

Colour:

-Charcoal Grey

Density:

- 1.8 – 2.2 lb/ft³

Tensile Strength:

- 15 lb/in²

Tear Strength:

- 2 lb/in

"K" Factor:

- .25 BTU/hr./ft²/°F/in.

Elongation:

- 200%

Compression Set:

- 15% max (50% deflection @ 158% F, 22 hrs.)

Cell Size:

- 60 cells/in.

Flammability:

- MVSS 302, SAE J369 a (S.E.), or UL-94 HF-1. (**NOTE: WE STOCK ONLY PRODUCT MEETING UL-94 HF-1.**)

MYLAR

Tensile Strength

- 20 lb/in of width

Abrasion Resistance

- Good

Continuous Temp Range

- -100°F to 300° F

Water Resistance

- Excellent

Chemical Resistance

- Good



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AVAILABILITY:

Water Jet Cut

Die Cut Parts

Cut Sheets to Size

Wide Width Rolls (54" wide)

Laminated Vibration Damping

Milcote Edge Coating

Thickness: 1" (other thicknesses by special order)

ACOUSTIC PROPERTIES:

The following sound absorption results are based on a test of 1" thick material that conformed with the requirements of the American Society for Testing and Materials Method of Test for Sound Absorption of Acoustical Materials in Reverberation Rooms, ASTM Designation C423-77.

1/3 Octave Band Center Frequency, Hz							
	125	250	500	1000	2000	4000	NRC
Absorption Coefficients	.18	.54	.70	.30	.30	.37	.45

Absorption values are measured with an uncertainty of less than 1% with a confidence level of 95% at frequencies of 250 Hz and above. At frequencies below 250 Hz, the uncertainty is less than 1.5% with 95% confidence level. The noise reduction coefficient (NRC) is the average of the coefficients at 250, 500, 1000 and 2000 Hz, expressed to the nearest integral multiple of 0.05.