

# VSC Acoustical Foam Materials

## MC5200 - Noise Attenuation Foam

This noise attenuating foam is composed of fine cell polyester polyurethane foam engineered to enhance broadband sound absorption. It is unfaced but also available in forms incorporating various functional and attractive facings, which modify its absorptive characteristics.

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

Off Highway Equipment

Lawn & Garden Equipment

“In Plant” Noise Control

Data Processing Equipment



### AVAILABILITY:

Die Cut Parts

Cut Sheets to Size

Untrimmed Rolls (54" wide)

Stock Colour: Black, Beige, Grey

Sewn Parts

Routed or Hot Wire Cut

Thickness: 1" (other thicknesses by special order)

### Physical Properties

#### FOAM (ASTM D 1564)

**Type:**

-Flexible polyester open cell urethane

**Colour:**

-Charcoal Grey

**Density:**

- 1.8 – 2.2 lb/ft<sup>3</sup>

**Tensile Strength:**

- 15 lb/in<sup>2</sup>

**Tear Strength:**

- 2 lb/in

**“K” Factor:**

- .25 BTU/hr./ft<sup>2</sup>/°F/in.

**Elongation:**

- 200%

**Compression Set:**

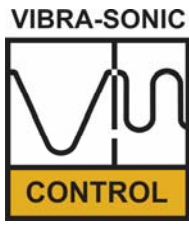
- 15% max (50% deflection @ 158° F, 22 hrs.)

**Cell Size:**

- 60 cells/in.

**Flammability:** \*when specifically requested the material will meet one of the following standards.

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



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## 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
<b>Absorption Coefficients</b>	<b>.12</b>	<b>.22</b>	<b>.44</b>	<b>.82</b>	<b>.93</b>	<b>.82</b>	<b>.60</b>

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.