VSC Acoustical Foam Materials

MC5200C – "Convoluted" Noise Attenuation Foam

This acoustical foam product is basically MC5200 that is typically 2" thick or more and which has been convoluted to increase its surface area, thereby increasing its overall broadband absorption. The most commonly requested convolution pattern is 1 ½" peak-to-valley on a ½" base thickness. Convoluted foams can be combined with loaded vinyl or uncured rubber to form an acoustical composite.

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

Vibration Damping

Lawn & Garden Noise Control

"In Plant" Noise Systems

Data Processing Equipment

O.E.M. Noise Absorbers

Recreational Vehicles

AVAILABILITY:

Die Cut Parts

Cut Sheets to Size

Custom Thickness

Physical Properties

FOAM (ASTM D 1564)

Type:
-Flexible polyester open cell urethane

Colour:
-Charcoal Grey

Density:
- 2 lb/ft3

Tensile Strength:
- 15 lb/in2

Tear Strength:
- 2.5 lb/in

"K" Factor:
- .25 BTU/hr./ft2/°F/in.

Elongation:
- 200%

Compression Set:
- 10% max (50% deflection @ 158° F, 22 hrs.)

Cell Size:
- 60 cells/lineal 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 1/2" 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	**.09**	**.21**	**.58**	**.99**	**.94**	**.84**	**.70**

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.