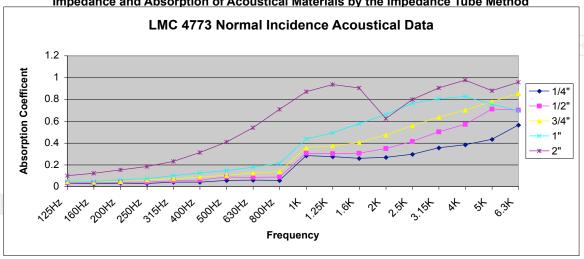


MANUFACTURING CORPORATION

## **ACOUSTICAL DATA FOR LMC 4773**

The following data was compiled following ASTM Test Method C 384-95 "Impedance and Absorption of Acoustical Materials by the Impedance Tube Method"



		Mate	rial Thick	ness		
Frequency	1/4"	1/2"	3/4"	1"	2"	
125Hz	0.032	0.033	0.046	0.051	0.099	Summary of Test Method
160Hz	0.026	0.034	0.041	0.048	0.121	A plane wave traveling in one di
200Hz	0.031	0.042	0.047	0.061	0.153	reflected back by the test specin
250Hz	0.029	0.039	0.063	0.071	0.183	standing wave that can be explo
315Hz	0.041	0.052	0.073	0.099	0.231	The normal incidence sound ab
400Hz	0.041	0.059	0.088	0.125	0.313	determined from the standing w
500Hz	0.056	0.088	0.102	0.148	0.408	of the test specimen. To determ
630Hz	0.058	0.085	0.125	0.179	0.539	a measurement of the position of
800Hz	0.057	0.086	0.136	0.211	0.709	reference to the face of the mate
1K	0.283	0.306	0.359	0.435	0.869	The absorption coefficient and i
1.25K	0.273	0.302	0.373	0.491	0.936	functions of frequency. Measure
1.6K	0.259	0.306	0.405	0.576	0.903	tones at a number of frequencie
2K	0.269	0.349	0.474	0.662	0.624	compelling reasons to do other
2.5K	0.296	0.415	0.557	0.764	0.799	
3.15K	0.354	0.502	0.636	0.804	0.904	Significance and Use
4K	0.383	0.571	0.702	0.826	0.975	The acoustical impedance prop
5K	0.434	0.711	0.778	0.755	0.879	material are related to its physic
6.3K	0.564	0.702	0.854	0.696	0.957	porosity, elasticity, and density.
Absorption Coefficent						in this test method are useful in

direction down a tube is imen to produce a lored with a microphone. bsorption coefficient is wave ratio at the face nine the impedance ratio of the standing wave with aterial is needed. impedance ratio are rements are made with pure ies chosen, unless there are rwise, from those specified.

perties of a sound absorptive ical properties, such as airflow resistance, As such, the measurements described n basic research and product development of sound absorptive materials....

The listed Summary of Test Method and Significance and Use information was taken directly from the ASTM Standard listed. Any further test procedure information required please contact ASTM directly for a copy of the Test Methods.

The testing was conducted by the supplier of the foam to LMC and is believed to be valid. Any further testing requirements will have to be discussed with a LMC representative.

gfc-3Nov98

**NRC** 

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