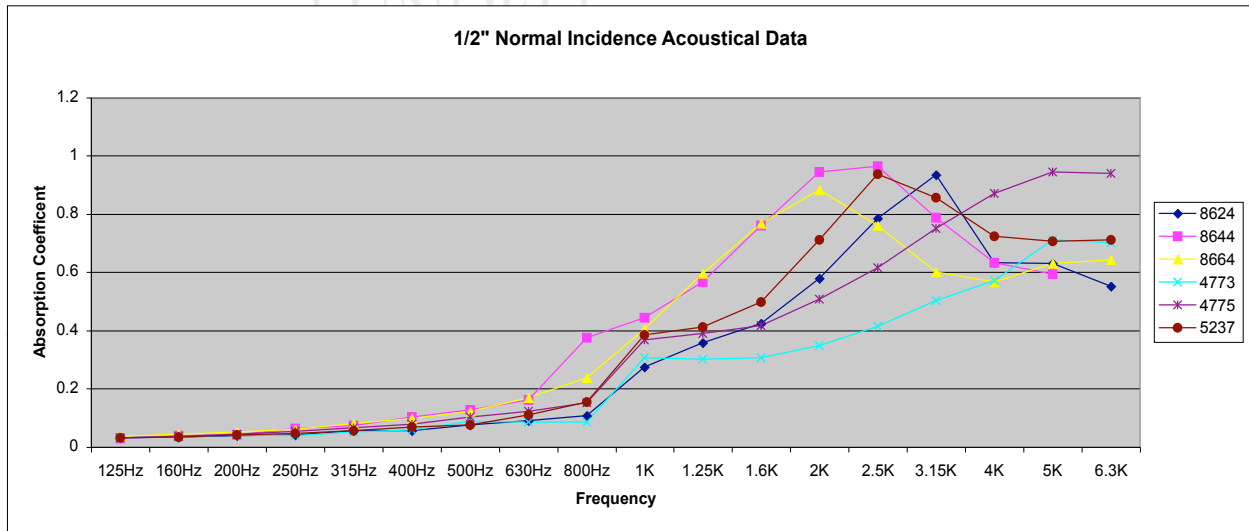


1/2" ACOUSTICAL DATA

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



Frequency	LMC Material Designation						Summary of Test Method
	8624	8644	8664	4773	4775	5237	
125Hz	0.031	0.033	0.038	0.033	0.032	0.032	<p>A plane wave traveling in one direction down a tube is reflected back by the test specimen to produce a standing wave that can be explored with a microphone. The normal incidence sound absorption coefficient is determined from the standing wave ratio at the face of the test specimen. To determine the impedance ratio a measurement of the position of the standing wave with reference to the face of the material is needed. The absorption coefficient and impedance ratio are functions of frequency. Measurements are made with pure tones at a number of frequencies chosen, unless there are compelling reasons to do otherwise, from those specified.</p> <p>Significance and Use</p> <p>The acoustical impedance properties of a sound absorptive material are related to its physical properties, such as airflow resistance, porosity, elasticity, and density. As such, the measurements described in this test method are useful in basic research and product development of sound absorptive materials...</p>
160Hz	0.035	0.029	0.044	0.034	0.036	0.035	
200Hz	0.039	0.039	0.051	0.042	0.043	0.041	
250Hz	0.041	0.042	0.062	0.039	0.054	0.046	
315Hz	0.056	0.064	0.081	0.052	0.066	0.056	
400Hz	0.057	0.073	0.098	0.059	0.078	0.068	
500Hz	0.076	0.104	0.122	0.088	0.102	0.077	
630Hz	0.091	0.127	0.169	0.085	0.123	0.111	
800Hz	0.108	0.163	0.237	0.086	0.151	0.154	
1K	0.274	0.375	0.405	0.306	0.369	0.386	
1.25K	0.359	0.443	0.597	0.302	0.389	0.413	
1.6K	0.424	0.567	0.769	0.306	0.417	0.498	
2K	0.579	0.761	0.883	0.349	0.507	0.711	
2.5K	0.786	0.945	0.761	0.415	0.617	0.937	
3.15K	0.934	0.965	0.601	0.502	0.751	0.856	
4K	0.634	0.788	0.568	0.571	0.872	0.724	
5K	0.631	0.632	0.631	0.711	0.944	0.706	
6.3K	0.552	0.595	0.642	0.702	0.941	0.711	

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-15.Jan99