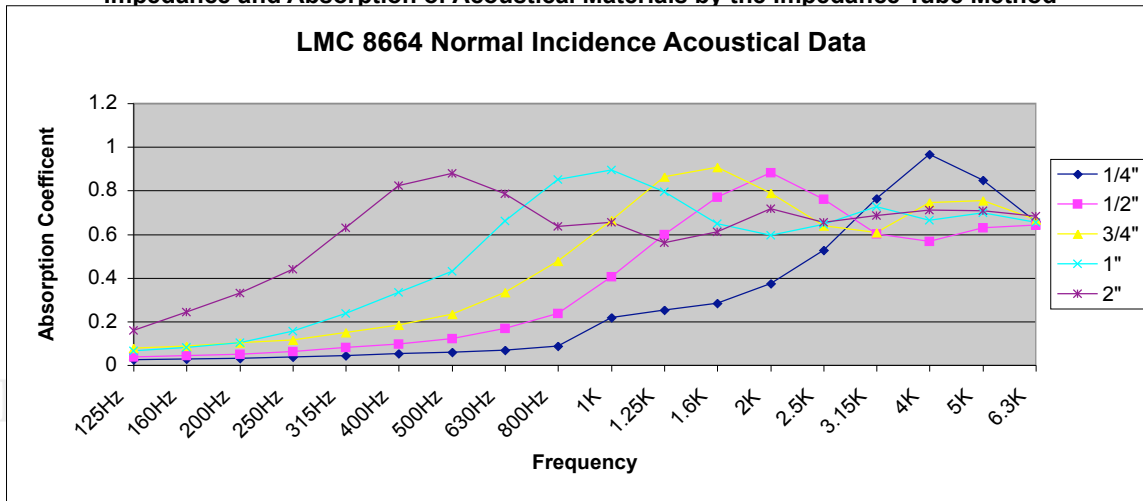


ACOUSTICAL DATA FOR LMC 8664

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



Frequency	Material Thickness				
	1/4"	1/2"	3/4"	1"	2"
125Hz	0.024	0.038	0.077	0.064	0.159
160Hz	0.029	0.044	0.088	0.081	0.243
200Hz	0.031	0.051	0.104	0.104	0.331
250Hz	0.038	0.062	0.116	0.157	0.438
315Hz	0.045	0.081	0.149	0.237	0.631
400Hz	0.053	0.098	0.185	0.335	0.823
500Hz	0.058	0.122	0.233	0.429	0.879
630Hz	0.069	0.169	0.335	0.661	0.787
800Hz	0.086	0.237	0.478	0.852	0.636
1K	0.219	0.405	0.664	0.895	0.656
1.25K	0.251	0.597	0.864	0.794	0.561
1.6K	0.285	0.769	0.907	0.649	0.611
2K	0.373	0.883	0.789	0.596	0.716
2.5K	0.526	0.761	0.639	0.646	0.656
3.15K	0.764	0.601	0.608	0.725	0.686
4K	0.967	0.568	0.746	0.665	0.711
5K	0.847	0.631	0.754	0.699	0.707
6.3K	0.658	0.642	0.667	0.654	0.683
	Absorption Coefficient				
NRC	30.5	49.5	62.8	70.3	87.8

Summary of Test Method

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.

Significance and Use

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....

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.

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