



Measurement of Sound Absorption (coefficient α)

The sound absorption coefficient is the percentage of incident sound energy that, rather than being reflected, is converted to other forms of energy such as heat.

Material:	XX-C033
Applicant:	(none)

Date:	11-10-2007
Measured by:	PAN

Measure condition:	
Measurements require careful control of temperature and humidity in an impedance tube in accordance with ISO 10534-2.	
Distance mic. 1:	450 mm
Distance mic. 2:	375 mm

Hz / α	10 mm	20 mm	30 mm	40 mm	50 mm
125	0,015	0,026	0,039	0,051	0,062
160	0,032	0,052	0,074	0,119	0,133
200	0,035	0,061	0,086	0,162	0,157
250	0,041	0,077	0,111	0,216	0,204
315	0,046	0,089	0,152	0,326	0,270
400	0,046	0,094	0,185	0,452	0,310
500	0,064	0,137	0,266	0,682	0,446
630	0,079	0,193	0,420	0,930	0,658
800	0,099	0,273	0,621	0,972	0,804
1.000	0,116	0,385	0,901	0,805	0,951
1.250	0,157	0,563	0,986	0,676	0,933
1.600	0,233	0,819	0,840	0,677	0,800
1.715	0,242	0,893	0,751	0,657	0,713

