



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-B028
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	0,013	0,025	0,035	0,061	0,070
160	0,029	0,048	0,063	0,111	0,129
200	0,039	0,074	0,094	0,189	0,205
250	0,046	0,089	0,119	0,237	0,261
315	0,051	0,114	0,151	0,321	0,349
400	0,062	0,145	0,186	0,397	0,426
500	0,098	0,196	0,249	0,539	0,557
630	0,143	0,326	0,401	0,699	0,790
800	0,190	0,439	0,496	0,806	0,895
1.000	0,369	0,635	0,769	0,990	0,993
1.250	0,687	0,868	0,931	0,919	0,913
1.600	0,633	0,988	0,995	0,807	0,811
1.715	0,609	0,932	0,982	0,727	0,729

