



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:	02-RE100
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	0,065	0,078	0,119	0,134	0,176
160	0,045	0,066	0,128	0,140	0,207
200	0,036	0,074	0,162	0,200	0,196
250	0,039	0,075	0,168	0,193	0,244
315	0,055	0,104	0,236	0,286	0,424
400	0,092	0,168	0,311	0,454	0,639
500	0,144	0,279	0,567	0,605	0,795
630	0,174	0,357	0,688	0,693	0,875
800	0,275	0,541	0,866	0,922	0,992
1.000	0,419	0,740	0,940	0,992	0,989
1.250	0,627	0,922	0,926	0,958	0,883
1.600	0,845	0,985	0,834	0,837	0,784
1.715	0,920	0,980	0,825	0,799	0,791
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	-	-	-	-	-
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