



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:	RE130-PU
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	-	0,018	0,024	-	0,034
160	-	0,039	0,049	-	0,070
200	-	0,435	0,466	-	0,273
250	-	0,334	0,252	-	0,645
315	-	0,214	0,168	-	0,204
400	-	0,201	0,136	-	0,236
500	-	0,133	0,157	-	0,234
630	-	0,159	0,377	-	0,359
800	-	0,294	0,394	-	0,281
1.000	-	0,438	0,257	-	0,280
1.250	-	0,295	0,350	-	0,303
1.600	-	0,329	0,293	-	0,289
1.715	-	0,312	0,266	-	0,267

