



### Measurement of Sound Absorption (coefficient $\alpha$ )

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.

<b>Material:</b>	RE100-PU
<b>Applicant:</b>	(none)

<b>Date:</b>	11-10-2007
<b>Measured by:</b>	PAN

<b>Measure condition:</b>	
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 / $\alpha$	10 mm	20 mm	30 mm	40 mm	50 mm
125	0,058	0,015	0,100	-	-
160	0,047	0,032	0,078	-	-
200	0,053	0,217	0,062	-	-
250	0,148	0,514	0,083	-	-
315	0,241	0,520	0,131	-	-
400	0,418	0,197	0,459	-	-
500	0,470	0,143	0,326	-	-
630	0,195	0,133	0,396	-	-
800	0,154	0,184	0,209	-	-
1.000	0,135	0,370	0,309	-	-
1.250	0,121	0,395	0,404	-	-
1.600	0,155	0,244	0,321	-	-
1.715	0,210	0,222	0,388	-	-

