



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.

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| Material: | TE-RE100 |
| Applicant: | (none) |

| | |
|---------------------|------------|
| Date: | 11-10-2007 |
| Measured by: | PAN |

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|---|--------|
| 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 | 0,053 | 0,072 | 0,093 | 0,119 | 0,153 |
| 160 | 0,037 | 0,062 | 0,089 | 0,123 | 0,150 |
| 200 | 0,026 | 0,057 | 0,091 | 0,134 | 0,179 |
| 250 | 0,028 | 0,064 | 0,107 | 0,158 | 0,230 |
| 315 | 0,036 | 0,093 | 0,148 | 0,220 | 0,349 |
| 400 | 0,054 | 0,147 | 0,248 | 0,376 | 0,542 |
| 500 | 0,075 | 0,217 | 0,351 | 0,508 | 0,692 |
| 630 | 0,080 | 0,246 | 0,409 | 0,591 | 0,788 |
| 800 | 0,106 | 0,350 | 0,578 | 0,792 | 0,945 |
| 1.000 | 0,142 | 0,448 | 0,702 | 0,893 | 0,987 |
| 1.250 | 0,183 | 0,606 | 0,877 | 0,991 | 0,974 |
| 1.600 | 0,237 | 0,768 | 0,978 | 0,986 | 0,894 |
| 1.715 | 0,279 | 0,816 | 0,983 | 0,977 | 0,896 |
| | - | - | - | - | - |
| | - | - | - | - | - |
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