Sound absorption coefficient according to DIN EN ISO 10534-2

Transfer-function method

A 01

Test subject:

Name:	Foam grade PV5010 - 30 mm thickness
Description:	Foam Average of samples 1 and 2
Client:	Vita Baltic International LT-62181 Jurgiškiai, Alytus region, Lithuania
Manufacturer:	Client

Measurement conditions:

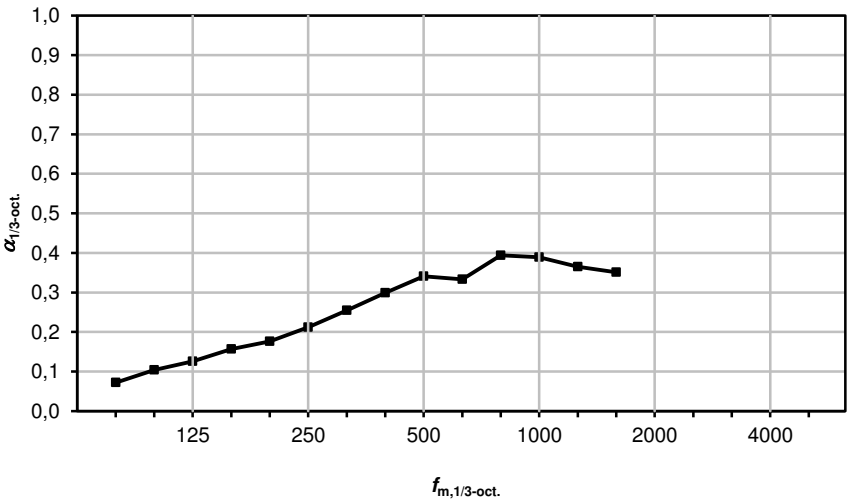
Standard:	EN ISO 10534-2: Acoustics - Determination of sound absorption coefficient and impedance in impedance tubes
Method:	Transfer-function method (ISO 10534-2: 1998)
Measurement system:	Impedance Tube AFD 1000 - AcoustiTube®, Diameter 100 mm, Software AFD 1001, Version 1.5
Temperature:	19 °C
Relative humidity:	50 %
Date of measurement:	05.05.2015

Specimen:

Total number:	2
Diameter:	100 mm
Thickness:	30 mm
Mounting:	Specimen mounted acoustically sealed in impedance tube

Result:

$f_{m,1/3\text{-oct.}}$ / $f_{m,oct.}$	$\alpha_{1/3\text{-oct.}}$	$\alpha_{oct.}$
50	---	---
63	---	
80	0,07	
100	0,10	0,13
125	0,13	
160	0,16	
200	0,18	0,21
250	0,21	
315	0,26	
400	0,30	0,32
500	0,34	
630	0,33	
800	0,39	0,38
1000	0,39	
1250	0,37	
1600	0,35	---
2000	---	
2500	---	
3150	---	---
4000	---	
5000	---	



center frequency of 1/3-octave band / octave band $f_{m,1/3\text{-oct.}}$ / $f_{m,oct.}$ in Hz

sound absorption coefficient of each 1/3-octave band / octave band $\alpha_{1/3\text{-oct.}}$ / $\alpha_{oct.}$

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Sound absorption coefficient according to DIN EN ISO 10534-2

Transfer-function method

A 01-1

Test subject:

Name:	Foam grade PV5010 - 30 mm thickness
Description:	Foam
Client:	Vita Baltic International LT-62181 Jurgiškiai, Alytus region, Lithuania
Manufacturer:	Client

Measurement conditions:

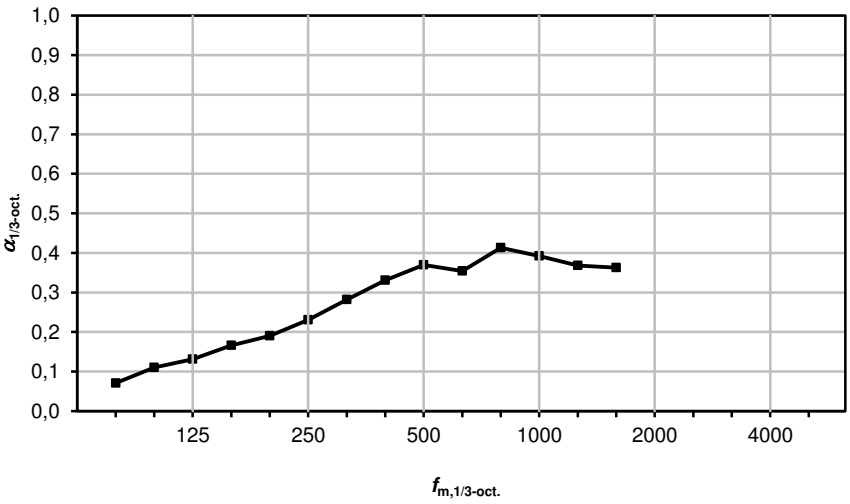
Standard:	EN ISO 10534-2: Acoustics - Determination of sound absorption coefficient and impedance in impedance tubes
Method:	Transfer-function method (ISO 10534-2: 1998)
Measurement system:	Impedance Tube AFD 1000 - AcoustiTube®, Diameter 100 mm, Software AFD 1001, Version 1.5
Temperature:	19 °C
Relative humidity:	50 %
Date of measurement:	13.02.2015

Specimen:

Number (Total number):	1 (2)
Diameter:	100 mm
Thickness:	30 mm
Mounting:	Specimen mounted acoustically sealed in impedance tube

Result:

$f_{m,1/3\text{-oct.}}$ / $f_{m,oct.}$	$\alpha_{1/3\text{-oct.}}$	$\alpha_{oct.}$
50	---	---
63	---	
80	0,07	
100	0,11	0,14
125	0,13	
160	0,17	
200	0,19	0,23
250	0,23	
315	0,28	
400	0,33	0,35
500	0,37	
630	0,35	
800	0,41	0,39
1000	0,39	
1250	0,37	
1600	0,36	---
2000	---	
2500	---	
3150	---	---
4000	---	
5000	---	



center frequency of 1/3-octave band / octave band $f_{m,1/3\text{-oct.}}$ / $f_{m,oct.}$ in Hz

sound absorption coefficient of each 1/3-octave band / octave band $\alpha_{1/3\text{-oct.}}$ / $\alpha_{oct.}$

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Sound absorption coefficient according to DIN EN ISO 10534-2

Transfer-function method

A 01-2

Test subject:

Name:	Foam grade PV5010 - 30 mm thickness
Description:	Foam
Client:	Vita Baltic International LT-62181 Jurgiškiai, Alytus region, Lithuania
Manufacturer:	Client

Measurement conditions:

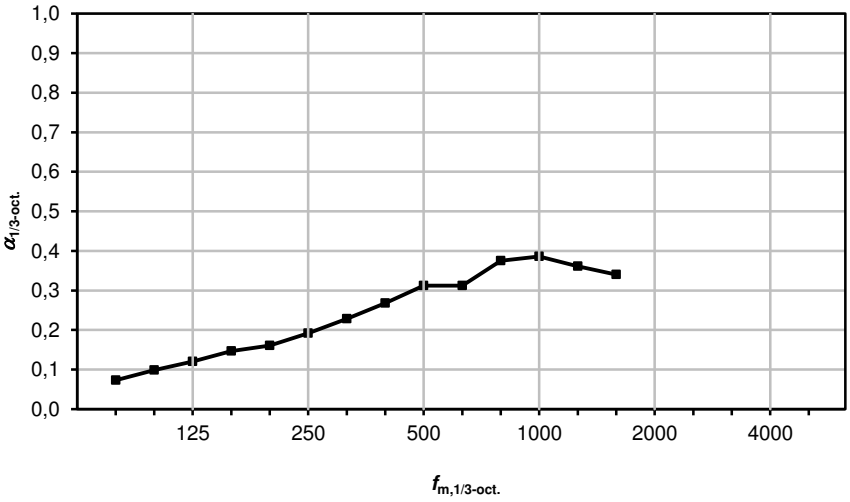
Standard:	EN ISO 10534-2: Acoustics - Determination of sound absorption coefficient and impedance in impedance tubes
Method:	Transfer-function method (ISO 10534-2: 1998)
Measurement system:	Impedance Tube AFD 1000 - AcoustiTube®, Diameter 100 mm, Software AFD 1001, Version 1.5
Temperature:	19 °C
Relative humidity:	50 %
Date of measurement:	13.02.2015

Specimen:

Number (Total number):	2 (2)
Diameter:	100 mm
Thickness:	30 mm
Mounting:	Specimen mounted acoustically sealed in impedance tube

Result:

$f_{m,1/3\text{-oct.}}$ / $f_{m,oct.}$	$\alpha_{1/3\text{-oct.}}$	$\alpha_{oct.}$
50	---	---
63	---	
80	0,07	
100	0,10	0,12
125	0,12	
160	0,15	
200	0,16	0,19
250	0,19	
315	0,23	
400	0,27	0,30
500	0,31	
630	0,31	
800	0,38	0,37
1000	0,39	
1250	0,36	
1600	0,34	---
2000	---	
2500	---	
3150	---	---
4000	---	
5000	---	



center frequency of 1/3-octave band / octave band $f_{m,1/3\text{-oct.}}$ / $f_{m,oct.}$ in Hz

sound absorption coefficient of each 1/3-octave band / octave band $\alpha_{1/3\text{-oct.}}$ / $\alpha_{oct.}$

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