

TEST REPORT

No. : CZIN2410000182CM01_EN

Date : 2024-10-17

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Sample Name : PET (POLYESTER FIBER) ACOUSTIC PANEL

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SHIN2410002444CM01

Date of Receipt : 2024-10-12

Testing Period : 2024-10-12 ~ 2024-10-17

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services (Changzhou) Co., Ltd..



Tiffany Liu

Authorized signatory

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	ASTM C423-23e1	See Result	N/A

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
N/A : Not Apply to the judgment.

Original Sample Photo:



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Test Item: Sound Absorption Coefficient

I. Test Method

ASTM C423-23e1 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

II. Sample Details

Dimensions	1200mm × 800mm × 25mm
Surface Density	About 4.08kg/m ²

III. Test Condition

Ambient Temperature	23.5°C	Ambient Humidity	75.4%RH
Volume Reverberation Room	260m ³	Test Area	11.52m ² (3.60m×3.20m)
Description of Test Arrangement	The installation of samples refers to type E mounting. The samples are installed in the reverberation room, covered with a 3.0mm thick steel plate around the perimeter edges, 50mm back cavity.		

IV. Test Result

Average Absorption Coefficient $\bar{\alpha}$ (100Hz~5000Hz): 0.74

Average Absorption Coefficient SAA (200Hz~2500Hz): 0.82

Noise Reduction Coefficient: NRC=0.80

Note: NRC is the arithmetic average of absorption coefficient contained four octave frequency bands (250, 500, 1000, 2000 Hz).

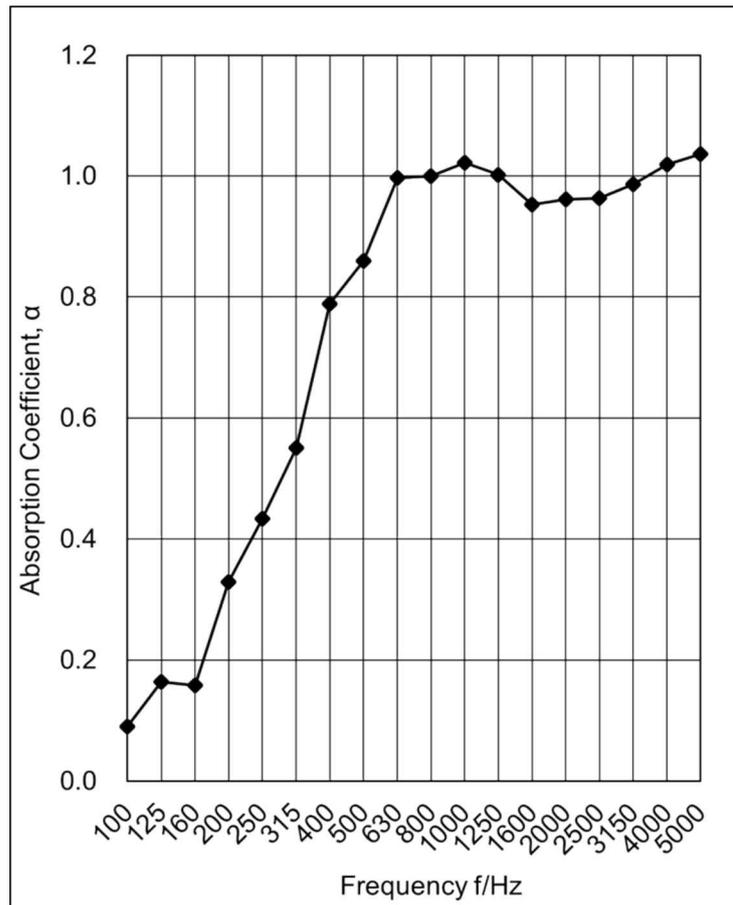
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Frequency f/Hz	Absorption Coefficient, α
100	0.09
125	0.16
160	0.16
200	0.33
250	0.43
315	0.55
400	0.79
500	0.86
630	1.00
800	1.00
1000	1.02
1250	1.00
1600	0.95
2000	0.96
2500	0.96
3150	0.99
4000	1.02
5000	1.04
$\bar{\alpha}$	0.74
SAA	0.82
NRC	0.80



Note: This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

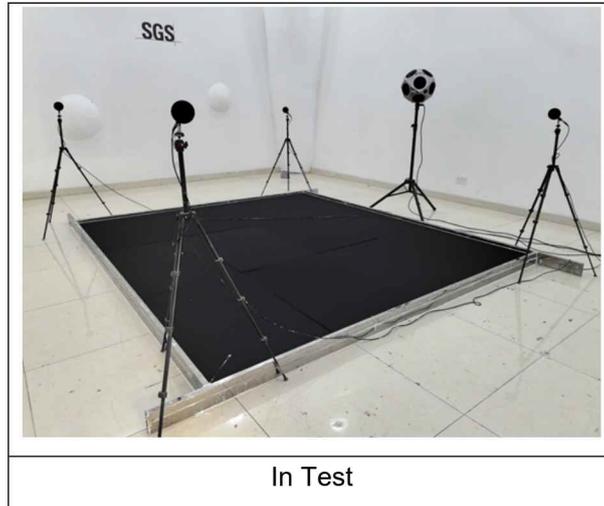
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V. Test Photo(s)



The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

*****End of report*****