



中国认可
国际互认
检测
TESTING
CNAS L3533

TEST REPORT

No. : CZIN2302000026CM

Date: Feb 21,2024

Page: 1 of 6

CUSTOMER NAME: JING WANG INTERNATIONAL CO., LIMITED.
ADDRESS: HI-TECH ZONE,SHIJIAZHUANG CITY,HEBEI PROVINCE

Sample Name POLYESTER FIBER ACOUSTIC PANEL

Product specification : 9mm

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.

Test Required Sound Absorption Coefficient
SGS Ref.No. SHIN2302000156CM,SHIN2302000012PL02
Ref.Standard ISO 354:2003
Date of Receipt Feb 02,2024
Testing Start Date Feb 02,2024
Testing End Date Feb 21,2024
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
Service (Changzhou)Co., Ltd.

Tiffany Liu
Authorized signatory



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Commercial Consistency Technical Service (常州) 有限公司

No.3, Hehai East Road, Tianning District, Changzhou, China 213021
中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgs.com.cn
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	ISO 354:2003	See Result	/

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

Original Sample Photo(s):



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Commercial Consulting & Technical Services

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t (86-519) 8876 9607 www.sgs.com.cn
t (86-519) 8876 9607 sgs.china@sgs.com

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Test Item: Sound Absorption Coefficient

I. Test Method

ISO 354:2003 Acoustics – Measurement of sound absorption in a reverberation room

II. Sample Details

Dimensions	1200mm × 1000mm × 9mm
Surface Density	About 1.90kg/m ²

III. Test Condition

Ambient Temperature	16.3°C	Relative Humidity	52.7%RH
Volume Reverberation Room	260m ³	Test Area	11.16m ² (3.60m×3.10m)
Description of Test Arrangement	The specimen is tested in an E-200 configuration. A mounting fixture covers the perimeter edges of the test specimen and encloses an air space behind the specimen.		



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Commercial Consistency Technical Services

No.3, Hehai East Road, Tianning District, Changzhou, China 213021
中国·常州·天宁区河海东路3号 邮编:213021

t(86-519) 8876 9607 www.sgs.com.cn
t(86-519) 8876 9607 sgs.china@sgs.com

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TEST REPORT

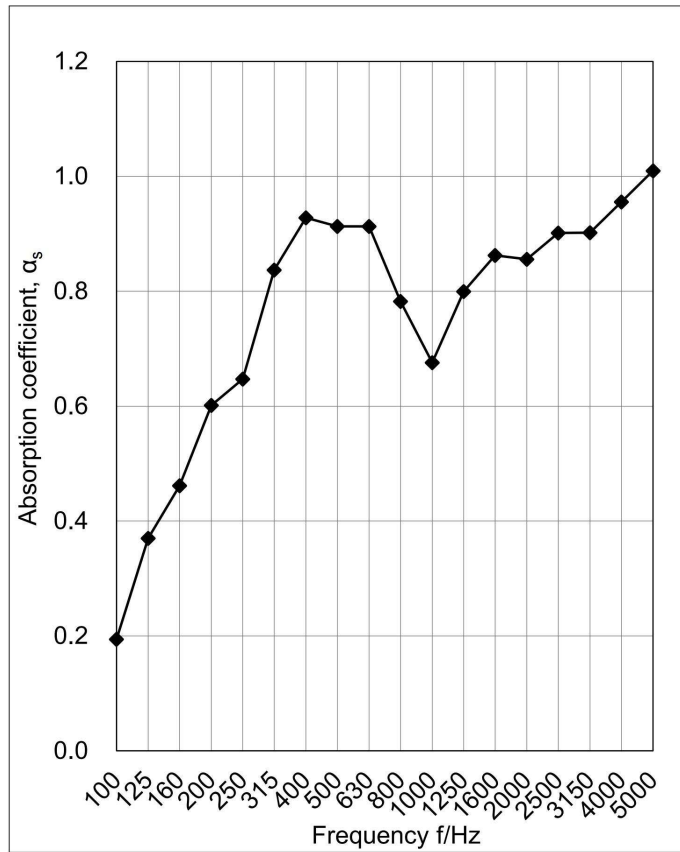
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IV. Test Result

Frequency, Hz	Absorption Coefficient, α_s
100	0.19
125	0.37
160	0.46
200	0.60
250	0.65
315	0.84
400	0.93
500	0.91
630	0.91
800	0.78
1000	0.68
1250	0.80
1600	0.86
2000	0.86
2500	0.90
3150	0.90
4000	0.96
5000	1.01
$\bar{\alpha}_s$	0.76
NRC	0.75



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SGS-CSTC 常州技术服务有限公司
Commercial Consultancy Technical Services (Changzhou) Co., Ltd.

No.3, Hehai East Road, Tianning District, Changzhou, China 213021
中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgs.com.cn
t (86-519) 8876 9607 sgs.china@sgs.com

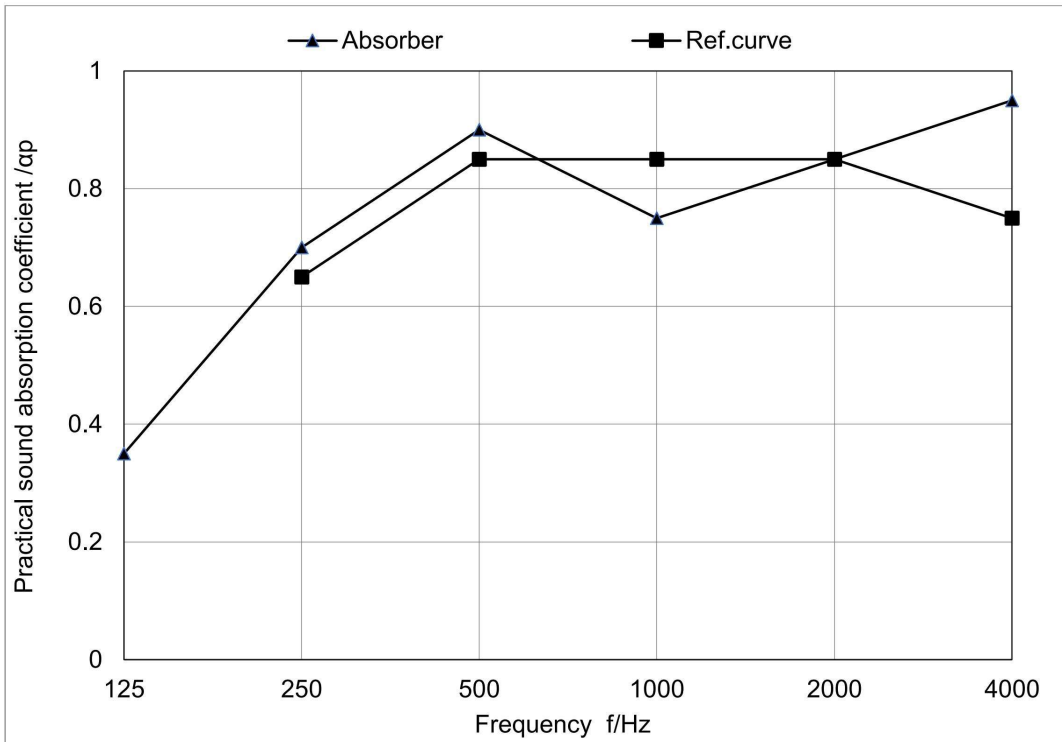
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Frequency/Hz	Reference curve	Practical sound absorption coefficient, α_p	Weighted sound absorption coefficient, α_w	Sound absorption classes
125	-	0.35	0.85	Class B
250	0.65	0.70		
500	0.85	0.90		
1000	0.85	0.75		
2000	0.85	0.85		
4000	0.75	0.95		



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t (86-519) 8876 9607
t (86-519) 8876 9607

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V. Weighted Sound Absorption Coefficient

Calculated according to ISO 11654:1997:

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.76

Noise Reduction Coefficient: NRC=0.75

Weighted sound absorption coefficient: α_w =0.85

Sound absorption classes: Class B

Note:

1. according to EN ISO 11654:1997, Sound absorption classes is five: Class A α_w =0.90;0.95;1.00
Class B α_w =0.80;0.85 Class C α_w =0.60;0.65;0.70;0.75 Class D α_w =0.30;0.35;0.40;0.45;0.50;0.55
Class E α_w =0.15;0.20;0.25 Not classified α_w =0.00;0.05;0.10
2. NRC is the arithmetic average of absorption coefficient contained four octave frequency bands (250, 500, 1000, 2000 Hz).
3. 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.

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

The test method is not in CMA accredited scope, the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc. and just for client internal reference.



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Commercial Consulting & Technical Services

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中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgs.com.cn
t (86-519) 8876 9607 sgs.china@sgs.com

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