

## TEST REPORT

No. : SHIN1910071317CM

Date : Oct 28, 2019

Page: 1 of 7



CUSTOMER NAME: KINGKUS NEW MATERIAL CO., LTD.  
ADDRESS: ZHITANG TOWN CHANGSHU CITY JIANGSU PROVINCE CHINA

Sample Name : POLYESTER FIBER ACOUSTIC PANEL  
Product Specification : 2440\*1220\*24mm

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 : Please see the next page(s)  
Ref. Standard : Please see the next page(s)  
Date of Receipt : Oct 10, 2019  
Testing Start Date : Oct 10, 2019  
Testing End Date : Oct 28, 2019  
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 (Shanghai) Co., Ltd.

Erin Huang  
Authorized signatory

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### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Thermal Conductivity and Thermal Resistance	EN 12667:2001 Heat flow meter method	See result	/
2	Sound Absorption Coefficient	EN ISO 354:2003	See result	/

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

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1. Test Item: Thermal Conductivity and Thermal Resistance

Test Method: EN 12667:2001 Heat flow meter method

Test Condition:

Specimen: 300mm×300mm×21.3mm, 1pc

Density: about 172.4kg/m<sup>3</sup>

Mean temperature: 24℃

Temperature difference: 20℃

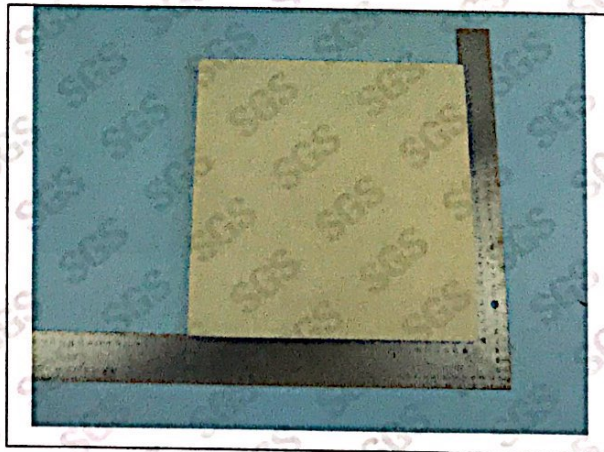
Lab Environmental Condition: 23±2℃, 50±5%RH

Test Result:

Test Item	Test Result
Thermal Conductivity	0.036 W/(m·K)
Thermal Resistance	0.599 (m <sup>2</sup> ·K)/W

Note: The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.

Specimen Photo(s):



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2. Test item: Sound Absorption Coefficient

I. Test method

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

II. Sample Details

Dimensions	1200mm × 600mm × 21mm
Surface density	About 3.1kg/m <sup>2</sup>

III. Test condition

Ambient temperature	23.2°C	Relative humidity	43.3%
Volume reverberation room	200m <sup>3</sup>	Test area	10.08m <sup>2</sup>
Description of test arrangement	The samples were installed on the center area of the test room used baffle to enclosure. No cavity.		

IV. Test condition

Noise Reduction Coefficient: NRC=0.65

Average Absorption Coefficient  $\bar{\alpha}_s$  (100Hz~5000Hz): 0.61

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

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**SHCCM 021861**

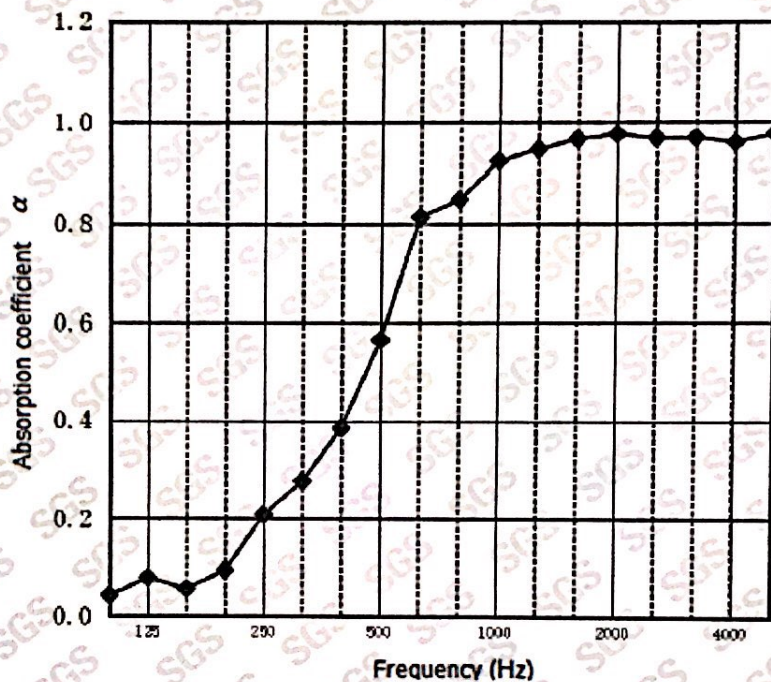
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Frequency Hz	Absorption coefficient, $\alpha_s$
100	0.04
125	0.08
160	0.06
200	0.09
250	0.21
315	0.28
400	0.39
500	0.56
630	0.81
800	0.85
1000	0.92
1250	0.95
1600	0.97
2000	0.98
2500	0.97
3150	0.97
4000	0.96
5000	0.98
$\bar{\alpha}_s$	0.61
NRC	0.65



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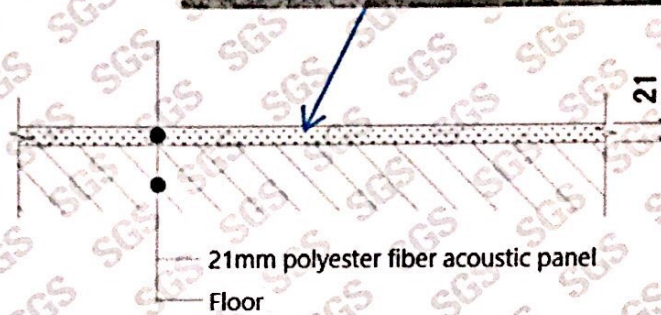
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Test schematic diagram:



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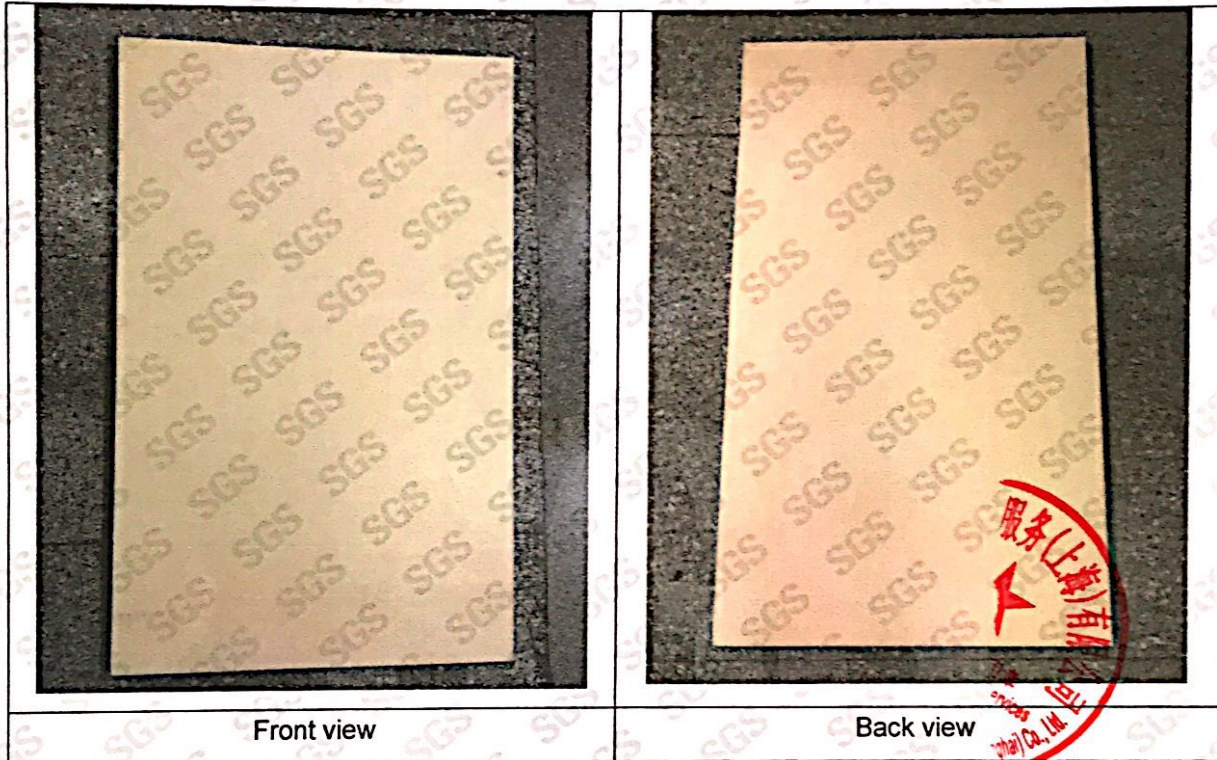
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Sample photos:



Note: The test was carried out by Center for Building Environment Test, Tsinghua University.

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

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