

TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 1 of 13

scan to see the report



SHIN2307005111PL02

CUSTOMER NAME: WUXI RONGZHEN PLASTIC INDUSTRY TECHNOLOGY CO., LTD.
ADDRESS: 2 FENGMING ROAD, HUANGTANG INDUSTRIAL PARK, XUXIAKE TOWN

Sample Name : coextruded foam board

Manufacturer : Wuxi Rongzhen Plastic Industry Technology Co., Ltd.

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.

Date of Receipt : 2023-07-10

Testing Period : 2023-07-10 ~ 2023-08-10

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 (Shanghai) Co., Ltd..

Jeff Zhang

Jeff Zhang
Authorized signatory



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TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 2 of 13

1. Test Item: Moisture Content

Sample Description: Sample board

Test Method: GB/T 17657-2013 Section 4.3

Test Condition:

Drying condition: 103 °C to constant mass → Weighing after cooling in the dryer

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

Test Result:

Test Item	Test Result	Requirement in GB/T 24137-2009 Table 4	Conclusion
Moisture Content	0.31 %	≤ 2.0 %	Pass

Note: Moisture content, % = (mass before drying - mass after drying) / mass after drying × 100



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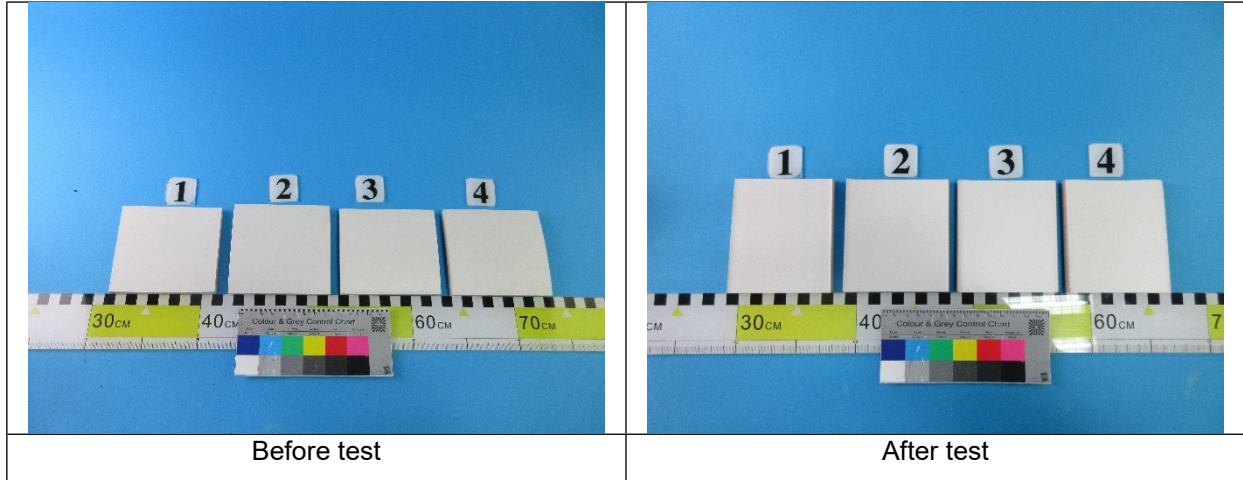
TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 3 of 13

Test Photo:



Equipment Information:

Equipment	Brand	Model	Equipment No.	Calibration date	Next Calibration date
Oven	MeMMERT	UF260 ^{plus}	P-696	2023-5-15	2024-5-14
Electronic balance	Mettler-Toledo	XP204	P-273	2023-1-3	2024-1-2



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TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 4 of 13

2. Test Item: Shore Hardness

Sample Description: sample board

Test Method: GB/T 30308-2013

Test Condition:

Specimen thickness: 7.91 mm

Shore D hardness durometer

Read time: 3 s

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Shore Hardness	56 Shore D



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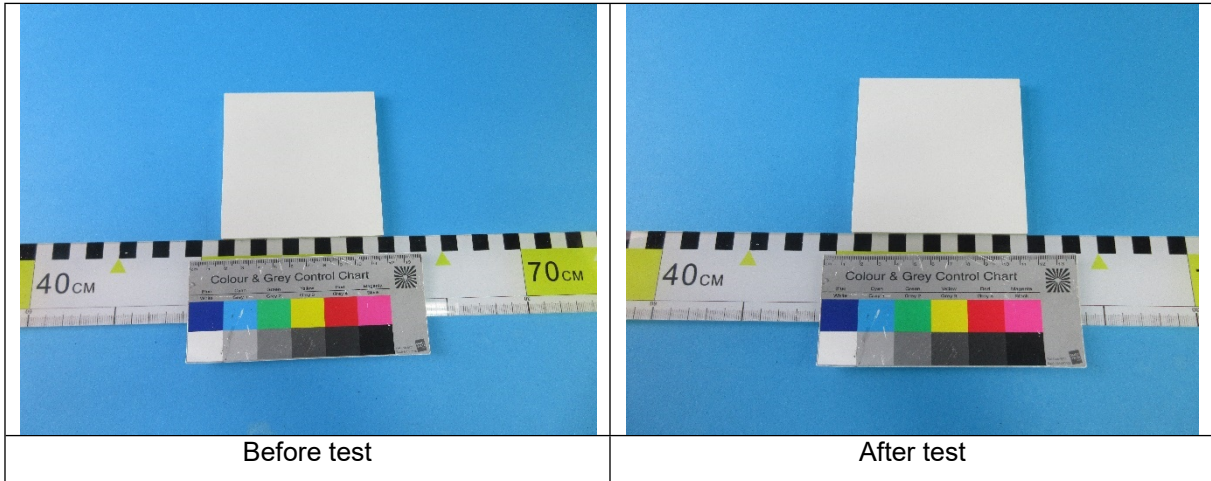
TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 5 of 13

Test Photo:



Equipment Information:

Equipment	Brand	Model	Equipment No.	Calibration date	Next Calibration date
D Type Shore Hardness Tester	Bareiss	Digitest-shoreD/C/D0	P-308-3	2023-3-20	2024-3-19
Electronic Digit 273calliper	SMCT	0-200mm-0.01mm	P-592	2023-5-31	2024-5-30



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TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 6 of 13

3. Test Item: Dimensional Stability

Sample Description: Sample board

Test Method: GB/T 17657-2013 Section 4.34

Client's Requirement: Test one sample only

Test Condition:

Condition : 70°C, 24h→Weighing after cooling in the dryer, 1h

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

Test Result:

Test Item	Test Result		Requirement in GB/T 24137-2009 Table 4	Conclusion
Dimensional Stability	Direction 1	0.62 %	$\leq 1.5 \%$	Pass
	Direction 2	0.24 %	$\leq 1.5 \%$	Pass

Note: Dimensional Stability, % = $\left| \frac{\text{After test} - \text{Before test}}{\text{Before test}} \right| \times 100$



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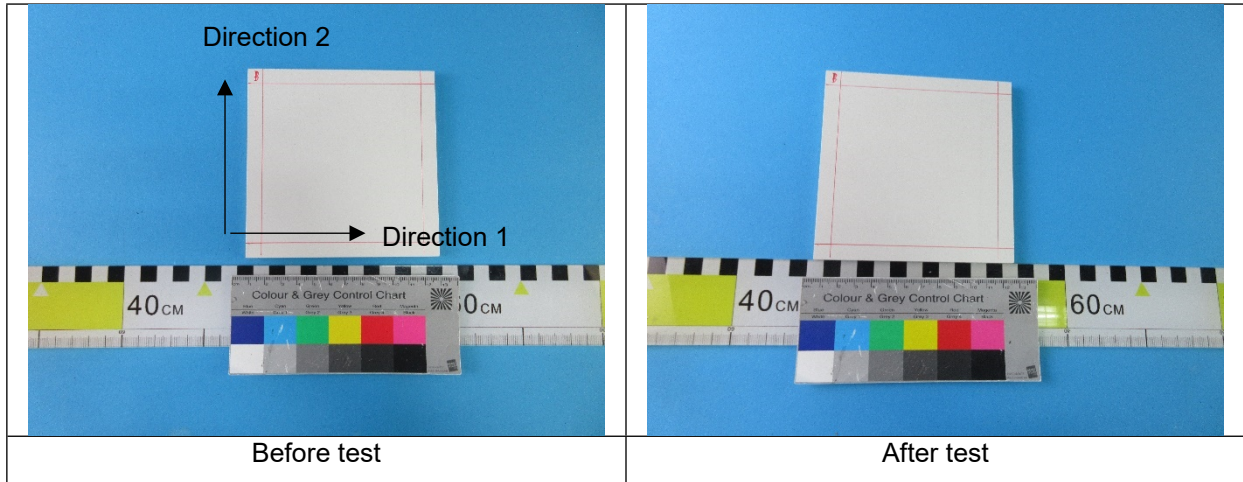
TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 7 of 13

Test Photo:



Equipment Information:

Equipment	Brand	Model	Equipment No.	Calibration date	Next Calibration date
Oven	MeMMERT	UF260 ^{plus}	P-696	2023-5-15	2024-5-14
Electronic Digit caliper	SMCT	0-200mm-0.01mm	P-592	2023-5-31	2024-5-30



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TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 8 of 13

4. Test Item: Formaldehyde emission content

Sample Description: Beige solid board

Test Method: With reference to GB/T 24137-2009 and GB 18580-2001 section 6.3, analysis was performed by UV-Vis.

Test Result:

Test Item(s)	Limit	Unit(s)	MDL	002
Formaldehyde emission	0.5	mg/L	0.2	ND
Conclusion				Pass

Notes:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-“ = Not Regulated
- (5) The maximum permissible limit is quoted from the client requirement.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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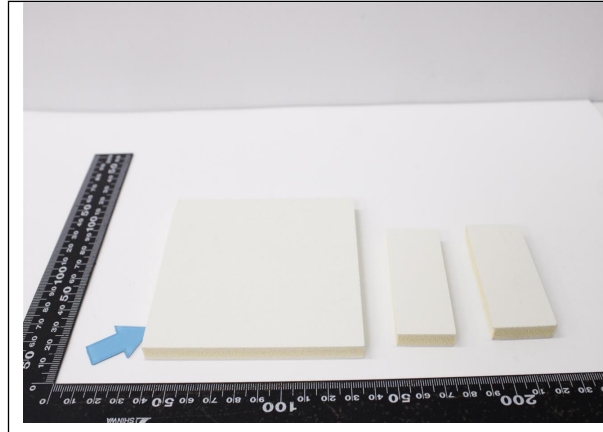
TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 9 of 13

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TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 10 of 13

5. Test Item: GB 8624-2012 Classification for burning behavior of building materials and products, Flat building materials and products.

I. Test conduct:

This test is conducted as per GB 8624-2012 classification for burning behavior of building materials and products. And the test methods as following:

GB/T 8626-2007 Test method of flammability for building materials.

II. Details of classified product

Sample description / Color	Coextruded foam board (provided by client) / White
Specimen size	250mm×90mm×7.9mm
Thickness	7.9mm
Mass per unit area	4.9 kg/m ²

III. Test result

Test methods	Parameter	Results
GB/T 8626 Exposure = 15 s	Whether vertical flame spread in excess of 150 mm within 20s (Yes/No)	No
	Ignition of the filter paper (Yes/No)	No

IV. Classification and direct field of application

This classification has been carried out in accordance with GB 8624-2012 chapter 5.1.1, the classes with their corresponding fire performance are given in annex A.

The product, Coextruded foam board (provided by client), classification is as following:

Reaction to fire classification: GB 8624 B₂ (E)

Characteristics of the various layers identical to those as described in section II of this test report.



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TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 11 of 13

STATEMENT:

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.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

WARNING:

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Annex A

Classes and Classification criteria of reaction to fire performance for Flat building materials and products

Class	Test method(s)		Classification criteria
A	A1	GB/T 5464 ^a and	$\Delta T \leq 30$ °C, and $\Delta m \leq 50$ %, and $t_f = 0$ (i.e. no sustained flaming)
		GB/T 14402	$PCS \leq 2.0$ MJ/kg ^{a,b,c,e} and $PCS \leq 1.4$ MJ/m ² ^d
		GB/T 5464 ^a or	$\Delta T \leq 50$ °C, and $\Delta m \leq 50$ %, and $t_f \leq 20$ s
	A2	GB/T 14402	$PCS \leq 3.0$ MJ/kg ^{a, e} and $PCS \leq 4.0$ MJ/m ² ^{b, d} and
		GB/T 20284	$FIGRA_{0.2MJ} \leq 120$ W/s and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5$ MJ



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TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 12 of 13

B1	B	GB/T 20284 and	FIGRA0.2MJ≤120W/s and LFS<edge of specimen and THR _{600s} ≤7.5MJ
		GB/T 8626 Exposure =30s	Fs≤150mm within 60 s no flaming droplets ignition of the paper within 60s
	C	GB/T 20284 and	FIGRA0.4MJ≤250W/s LFS<edge of specimen THR600s≤15MJ
		GB/T 8626 Exposure =30s	Fs≤150mm within 60 s no flaming droplets ignition of the paper within 60s
B2	D	GB/T 20284 and	FIGRA0.4MJ≤750W/s
		GB/T 8626 Exposure =30s	Fs≤150mm within 60 s no flaming droplets ignition of the paper within 60s
	E	GB/T 8626 Exposure =15s	Fs≤150 mm within 20 s no flaming droplets ignition of the paper within 60s
B3	F	No performance determined	

- a: For homogeneous products and substantial components of non-homogeneous products;
b: For any external non-substantial component of non-homogeneous products;
c: Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m² , if the product satisfies the following criteria: FIGRA_{0.2MJ} ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4.0 MJ, and s₁, and d₀, it will be A₁
d: For any internal non-substantial component of non-homogeneous products;
e: For the product as a whole;

Conclusion: According to the test results, the submitted sample reaction to fire classification is:
GB 8624 B₂ (E)



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TEST REPORT

No. : SHIN2307005111PL02_EN

Date : 2023-08-10

Page: 13 of 13

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- The test item 5 was performed by SGS other internal laboratory.

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