SHANDONG XIANGYING NEW MATERIALS TECHNOLOGY CO., LTD
850 METERS WEST OF THE ROAD SOUTHEAST OF WANYAO VILLAGE,
TANYI INDUSTRIAL PARK, TANYI TOWN, FEI COUNTY, LINYI CITY, SHANDONG PROVINCE

Sample Description : WOOD-PLASTIC COMPOSITES

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No. : AJFS2404003627FF

Sample Receiving Date : Apr 10, 2024

Test Performing Date : Apr 10, 2024 to Apr 18, 2024

Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures,Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.	See attached sheet	/
For further details, please refer to the following page(s)			

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Scan to see the report
SDHL2404005121HI
Verification:
check.sgsonline.com.cn

Peter Zhao
Authorized Signatory

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I. Test conducted

This test was performed in accordance with AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.

II. Sample details

Description	WOOD-PLASTIC COMPOSITES (provided by client)
Color	Brown
Thickness	23.0mm
Density	29.9 kg/m^2
Specimen size	600mm×450mm
Test surface	Any surface

	Temperature (℃)	Humidity (%)
Conditioning	20±2℃	65±5%

Note: The specimens shall be conditioned to constant mass (see ISO 291).

Mounting or fixing method for test sample:

Using fibre-reinforced cement board as substrate, hold the sample and substrate against the specimen support frame by using the specimen clamping ring. Have vertical joints in the specimens.

III. Test results

The mean values and standard errors:

Items		Mean value	Standard error
Ignition Time, (min)		NI	NA
Flame propagation time, (s)		NA	NA
Heat release integral, (Kj/m^2)		NA	NA
Optical density, D (m^{-1})	Ignition specimen	---	---
	Non-ignition specimen	1.1978	0.0163
Smoke release, lg D	Ignition specimen	---	---
	Non-ignition specimen	0.0784	0.0059

Note: NI—Not ignition; NA—Not applicable

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1) Where some of the specimens do not ignite, means and standard errors for smoke release shall be reported separately for those specimens that ignite and those that do not ignite. The higher of the two values shall be reported as the smoke released for the material or component. If the higher value applies to a non-ignition case, this fact shall be reported.

2) Where not all specimens ignite, indices for smoke developed shall be determined separately for those specimens that ignite and those specimens that do not ignite. The index allotted shall be based on the worst result.

Regulatory Indices:

Items	Regulatory Indices
Ignitability index (Range 0 to 20)	0
Spread of flame index (Range 0 to10)	0
Heat evolved index (Range 0 to 10)	0
Smoke developed index (Range 0 to 10)	4

Supplementary Observations:

(a) Number of specimens tested: 6

(b) The number of specimens that ignite: NI

(c) Where flashing was encountered, and ignition was based on a 10-second flash: NA

(d) The number of specimens did emit a radiation intensity rise of 1.4kW/m^2: NA

(e) Any observations: NO

(f) Others: NO

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Table 1 Indices for spread of flame

1.33 x mean flame propagation time, s		Index
≥270		0
≥240	＜270	1
≥210	＜240	2
≥180	＜210	3
≥150	＜180	4
≥120	＜150	5
≥90	＜120	6
≥60	＜90	7
≥30	＜60	8
≥10	＜30	9
	＜10	10

Table 2 Indices for heat evolved

Mean value of the integral from the radiation intensity curves Kj/m^2		Index
	＜25	0
≥25	＜50	1
≥50	＜75	2
≥75	＜100	3
≥100	＜125	4
≥125	＜150	5
≥150	＜175	6
≥175	＜200	7
≥200	＜225	8
≥225	＜250	9
≥250		10

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Table 3 Indices for smoke developed

Mean optical density, m^{-1}				Index
Expressed in terms of K*		Expressed numerically		
	＜K		＜0.0082	0†
≥K	＜2K	≥0.0082	＜0.0164	1
≥2K	＜2^2K	≥0.0164	＜0.0328	2
≥2^2K	＜2^3K	≥0.0328	＜0.0656	3
≥2^3K	＜2^4K	≥0.0656	＜0.131	4
≥2^4K	＜2^5K	≥0.131	＜0.262	5
≥2^5K	＜2^6K	≥0.262	＜0.525	6
≥2^6K	＜2^7K	≥0.525	＜1.05	7
≥2^7K	＜2^8K	≥1.05	＜2.10	8
≥2^8K	＜2^9K	≥2.10	＜4.20	9
≥2^9K		≥4.20		10

* Where K is a constant = 0.0082

† Where doubt exists in the resolving of optical density below 0.016 m^{-1} the index allotted should be ‘0 to 1’.

Statement:

1) The results only apply to the specimen mounted as described in this report.
2) The results of this fire test may be used to directly assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all fire conditions.

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Photo Appendix:



Remark: This test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch.

End of Report

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