SHANDONG YATAI NEW MATERIAL TECHNOLOGY CO., LTD.

YATAI ROAD NO.1, JINSHAN INDUSTRIAL PARK, HI-TECH DISTRICT, LINYI CITY, SHANDONG PROVINCE, CHINA

Sample Name	:	PREFINISHED SOLID ALUMINIUM PANEL
Style/Item No.	:	/
Product Specification	:	3.0mm
Others	:	PVDF FLUOROCARBON COATING, PRIMER 10μm, INTERMEDIATE COAT 15μm, TOPCOAT 10μm

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

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SGS Ref. No.	:	QDIN2503000398PL02
Sample Receiving Date	:	Mar 10,2025
Testing Period	:	Mar 10,2025 to Mar 18,2025
Test Required	:	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.
Test result(s)	:	See attached sheet

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

Eva Zhang
Approved 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	Aluminum plate + Coating
Color	Brown
Density	8.1 kg/m^2
Specimen size	600mm×450mm×3.1mm
Test surface	Coating surface
Substrate	Aluminum plate / 3.0mm

	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:

Fibre-reinforced cement board used as substrate, holding the sample and substrate against the specimen support frame by the clamps. No joint 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	0.0131	0.0002
Smoke release, lg D	Ignition specimen	---	---
	Non-ignition specimen	-1.8823	0.0051

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)	1

Supplementary Observations:

(a) Number of specimens tested: 6
(b) The number of specimens that ignite: 0
(c) Where flashing was encountered, and ignition was based on a 10-second flash: No
(d) The number of specimens did emit a radiation intensity rise of 1.4kW/m^2: 0
(e) Any observations: Discolored
(f) Others: None

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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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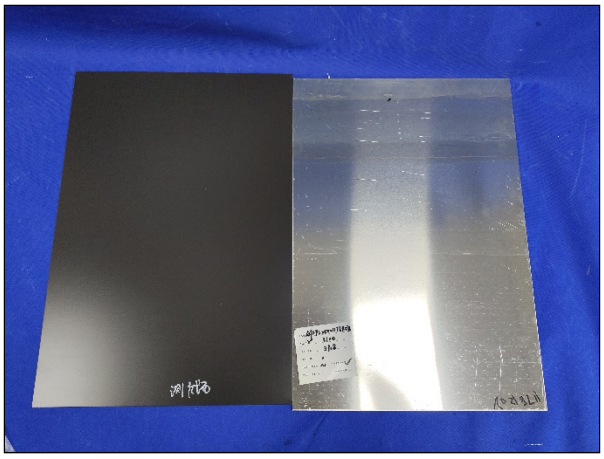
Photo Appendix:



SGS authenticate the photo on original report only

End of Report

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