Test Report

SHANDONG YATAI NEW MATERIAL TECHNOLOGY CO., LTD

NORTH SIDE OF THE MIDDLE SECTION OF YINSHAN ROAD, JINSHAN INDUSTRIAL PARK, LUOXI STREET, HIGH TECH ZONE, LINYI CITY, SHANDONG PROVINCE

Sample Name: ROLLER COATED COLOR ALUMINUM PLATE

SGS Ref No.: QDIN2409001723PL02

Style/Item No.: /

Material & Mark: 3003H24

Product Spec.: 1.16

Other: PVDF FLUOROCARBON COATING, PRIMER 8 μ m, TOPCOAT 18 μ m

The above sample(s) 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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Test Requested:

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 Results: -- See attached sheet --

Test Period:

Sample Receiving Date	:	SEP.03, 2024
Test Performing Date	:	SEP.03, 2024 TO SEP.11, 2024

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

Echo Li
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	Roller coated color aluminum plate (provided by client)
Construction	Coating + Aluminum plate
Color	Grey
Thickness	1.3mm
Density	3.2 kg/m^2
Specimen size	600mm×450mm
Test surface	Grey 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. 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	0.0045	0.0004
Smoke release, lg D	Ignition specimen	---	---
	Non-ignition specimen	-2.3452	0.0453

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)	0-1

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: NA

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

(e) Any observations: Surface discoloration

(f) Others: /

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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

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch Fire Testing Service

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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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