



TEST REPORT

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EVALUATION CENTER
Intertek
8431 Murphy Drive
Middleton, WI 53562

RENDERED TO
Jiangsu Dongfang Botec Technology Co., Ltd
No.8 Huaya Rd.
Donglai District Yangshe Town
Zhangjiagang City
China

PRODUCT EVALUATED: FR A2 Panel
EVALUATION PROPERTY: ASTM D1929

Report of Testing of FR A2 Panel for compliance with the applicable requirements of the following criteria: ASTM D1929- 16; Standard Test Method for Determining Ignition Properties of Plastics.

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2 Introduction

Intertek has conducted testing for Jiangsu Dongfang Botec Technology Co., Ltd on FR A2 Panel to evaluate the laboratory determination of the spontaneous-ignition temperatures and flash-ignition temperatures of plastics using a hot air furnace. Testing was conducted in accordance with ASTM D1929- 16, Standard Test Method for Determining Ignition Temperature of Plastics. This evaluation began December 12, 2016 and was completed December 12, 2016.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were selected by Azel Joquino a representative from Thomas Bell-Wright International Consultants on July 19, 2016 at Jiangsu Dongfang Botec Technology Co., Ltd, located at No.8 Huaya Rd., Donglai District Yangshe Town, Zhangjiagang City, China. Samples were received at the Middleton Evaluation Center on December 12, 2016 in good condition.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Sample Name: FR A2 Panel

Sample Description: Aluminum composite panel (ACP) made of class A2 core w/ 0.5 mm. The company produced the A2 core & ACP Panel in a continuous line.

ACP Panel Weights: 0.84 g/cm²

Core: Noncombustible inorganic material.

Specimens consisted of sheet material cut by client into squares approximately 20 ± 2 by 20 ± 2.

The test samples were conditioned for a minimum of 40 hours at 23± 2°C and 50± 5% relative humidity prior to testing.

4 Testing and Evaluation Methods

4.1 TEST STANDARD

4.1.1 Flash Ignition Temperature (FIT):

Testing for Flash Ignition Temperature is conducted in accordance with Section 8.1 of the standard.

4.1.2 Spontaneous Ignition Temperature (SIT):

Testing for Spontaneous Ignition Temperature is conducted in accordance with Section 8.2 of the standard.

4.2. RESULTS AND OBSERVATIONS

“These test results relate only to the behavior of test specimens under the particular conditions of the test. They are not intended to be used, and shall not be used, to assess the potential fire hazards of a material in use.”

Test Environment: 72°F, X 22% R.H.

Equipment Used: Furnace #1230, Scale # 1045, Caliper #1248

Results Summary:

Sample Name	Average Mass (g)	Flash Ignition Temperature (°C)	Spontaneous Ignition Temperature (°C)
FR A2 Panel	3.13	434	433

Observations: FIT Samples: Small explosion with black smoke and orange flames

SIT Samples: Small explosion with gray smoke and orange flames

5 Conclusion

Intertek has conducted testing for Jiangsu Dongfang Botec Technology Co., Ltd on FR A2 Panel to evaluate the laboratory determination of the spontaneous-ignition temperatures and flash-ignition temperatures of plastics using a hot air furnace. Testing was conducted in accordance with ASTM D1929- 16, Standard Test Method for Determining Ignition Temperature of Plastics.

There are no pass or fail criteria for ASTM D1929 standard.

Sample Name	Average Mass (g)	Flash Ignition Temperature (°C)	Spontaneous Ignition Temperature (°C)
FR A2 Panel	3.13	434	433

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK

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REVISION SUMMARY

DATE	SUMMARY
December 12, 2016	Original date of report
December 16, 2016	Corrected sample description and changed may/may not to may not in conclusion
December 19, 2016	Corrected sample weight in Section 3.2
