



TEST REPORT

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ORIGINAL ISSUE DATE: April 28, 2017  
REVISED DATE: May 4, 2017

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EVALUATION CENTER  
Intertek  
8431 Murphy Drive  
Middleton, WI 53562

RENDERED TO  
Guangdong Gaoli Aluminium Industry Co. Ltd.  
Industrial Development Zone  
Yanghe Town, Gaoming District  
Foshan, Guangdong  
China

PRODUCT EVALUATED: Globond Fr Aluminium Composite Panel Model of A2  
EVALUATION PROPERTY: ASTM D1929

Report of Testing of Globond Fr Aluminium Composite Panel Model of A2 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

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Intertek has conducted testing for Guangdong Gaoli Aluminium Industry Co. Ltd. on Globond Fr Aluminium Composite Panel Model of A2 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 April 27, 2017 and was completed April 28, 2017.

## 3 Test Samples

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### 3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were received at the Evaluation Center on April 25, 2017 in good condition. Samples were not independently selected for testing.

### 3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Sample Name: Globond Fr Aluminium Composite Panel Model of A2  
Sample Description:

Specimens consisted of sheet material cut by client into squares approximately  $20 \pm 2$  mm by  $20 \pm 2$  mm.

The test samples were conditioned for a minimum of 40 hours at  $23 \pm 2^\circ\text{C}$  and  $50 \pm 5\%$  relative humidity prior to testing.

## 4 Testing and Evaluation Methods

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### 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.

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#### 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:** 68 °F, 31%R.H.

**Equipment Used:** Furnace #123, Scale # 1045, Caliper #1248

Results Summary:

Sample Name	Average Mass (g)	Average Density (kg/m <sup>3</sup> )	Flash Ignition Temperature (°C)	Spontaneous Ignition Temperature (°C)
Globond Fr Aluminium Composite Panel Model of A2	2.74	N/A	455	433

Observations:

FIT Samples: Small explosion with orange flames and dark grey smoke, skin separated from core

SIT Samples: Small explosion with orange flames and dark grey smoke, skin separated from core

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## 5 Conclusion

Intertek has conducted testing for Guangdong Gaoli Aluminium Industry Co. Ltd. on Globond Fr Aluminium Composite Panel Model of A2 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)	Average Density (kg/m <sup>3</sup> )	Flash Ignition Temperature (°C)	Spontaneous Ignition Temperature (°C)
Globond Fr Aluminium Composite Panel Model of A2	2.74	N/A	455	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

Reported by:   
Leroy Shetler  
Lab Technician III, Verification Center

Reviewed by:   
Sandy Osborne  
Lab Technician I, Verification Center

## REVISION SUMMARY

DATE	SUMMARY
April 28, 2017	Original date of report
May 4, 2017	Changed Product name and company address per client