

REPORT NUMBER: 103262274MID-001bRev1
ORIGINAL ISSUE DATE: January 29, 2018
REVISED DATE: March 19, 2018

EVALUATION CENTER
Intertek
8431 Murphy Drive
Middleton, WI 53562

RENDERED TO

Sistem Metal Yapı Reklam Malzemeleri ve İnşaat San. Tic. A.Ş.
Reşitpaşa Mah. Eskibüyükdere Cad. Park Plaza
No: 14 Kat: 7 19/E D:20 Sarıyer/İstanbul/Turkey
Mr. Egemen Yörür
Egemen.yorur@albond.com.tr

PRODUCT EVALUATED: Albond FR Aluminium composite panel
EVALUATION PROPERTY: ASTM D1929

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

"This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program."

1 Table of Contents

1	TABLE OF CONTENTS	2
2	INTRODUCTION.....	3
3	TEST SAMPLES	3
3.1.	SAMPLE SELECTION	3
3.2.	SAMPLE AND ASSEMBLY DESCRIPTION.....	3
4	TESTING AND EVALUATION METHODS	4
4.1	TEST STANDARD	4
4.2.	RESULTS AND OBSERVATIONS.....	4
5	CONCLUSION	5

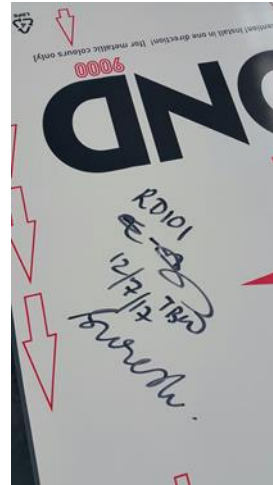
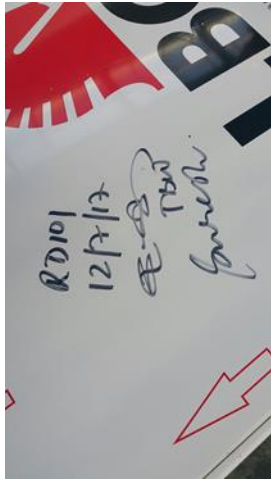
2 Introduction

Intertek has conducted testing for Sistem Metal Yapı Reklam Malzemeleri ve İnşaat San. Tic. A.Ş., on Albond FR Aluminium composite 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 January 25, 2018 and was completed January 25, 2018.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were selected by Mr. Suresh Kumar of TBWIC Certification Division dated July 12, 2017. Samples were received at the Evaluation Center on January 22, 2018 in good condition.



3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Sample Name: Albond FR Aluminium composite panel

Sample Description: Albond FR Aluminium composite panel 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 $23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ 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: 71.4°F, 20% R.H.

Equipment Used: Scale #1045, Furnace #1230, Oven #1080, Caliper #1248

Results Summary:

Sample Name	Average Mass (g)	Average Kg/m ³	Flash Ignition Temperature (°C)	Spontaneous Ignition Temperature (°C)
Albond FR Aluminium composite panel	2.8582	1679	416	396

Observations:

FIT Samples: small explosion with yellow/orange flame, light black smoke.

SIT Samples: small explosion with yellow/orange flame, light black smoke

5 Conclusion

Intertek has conducted testing for Sistem Metal Yapı Reklam Malzemeleri ve İnşaat San. Tic. A.Ş. on Albond FR Aluminium composite 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)	Average Kg/m ³	Flash Ignition Temperature (°C)	Spontaneous Ignition Temperature (°C)
Albond FR Aluminium composite panel	2.8582	1679	416	396

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:

Joel Zumwalt
Lab Technician III, Verification Center



Reviewed by:

Sandy Osborne
Lab Technician I, Verification Center

REVISION SUMMARY

DATE	SUMMARY
January 29, 2018	Original date of report
March 19, 2018	Corrected clients address on cover page