

**SUMMARY DATA**  
**ASTM D1929-12**  
**Standard Test Method for**  
**Determining Ignition Temperature of Plastics**

**NOTE:**

**\*\*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.\*\***

**General:**

Client: Arcitell, LLC  
Job Number: AL060920-37  
Test Location: *ICC NTA*  
*Nappanee, Indiana*

Date Received: 9/28/2020  
Construction Date: 1/15/2021  
Constructed By: Christopher Stine

Test Variable: FIT and SIT

Procedure Due to specimen composition and layers, specimen masses were slightly larger than the  $3.0 \pm 0.2$ g specimen mass  
Modifications: requirement. In order to ensure all material layers were tested, specimens were not shaved down.

**Product Description:**

Manufacturer: Arcitell, LLC  
Trade Name/Designation: Qora cladding panel  
Material Description: Composite cladding panel

Material Form of Test Specimens: sheet  
Nominal Specimen Size: 20mm wide x 20mm long x20mm thick  
Average Density ( $\text{kg/m}^3$ ): 543

**Conditioning:**

Specimens were conditioned at  $73.4 \pm 3.6$  °F and  $50 \pm 5\%$  R.H. for a minimum of 40 hours (if 0.25-in. or less in thickness) or a minimum of 88 hours (if greater than 0.25-in. thick)

<b>Apparatus:</b>	Asset No.
Conditioning Chamber:	N/A
Conditioning Sensor:	00587
Calipers:	02426
Furnace:	02379
Thermocouple, T1:	N/A
Thermocouple, T2:	N/A
Thermocouple, T3:	N/A
Temperature Controller:	02386
Control Cabinet:	02380
CPU/Software:	02377

This summary contains only data arrived at after employing the specific test procedures listed herein. This summary data might not include all reporting requirements of the test standard. The data herein does not constitute a recommendation for, endorsement of, or certification of the product or material tested. ICC NTA makes no warranty, expressed or implied, except that the test has been performed, and data prepared, based upon the specimen furnished by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC NTA assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC NTA has no control. ICC NTA has issued this data summary for the exclusive use of the client to whom it is addressed. Any use or duplication of this summary shall not be made without their consent. This summary shall only be reproduced in its entirety.

**Test Data:**

Performed By: Justin Mann  
 Witnessed By: Lucas Ward  
 Test Date: 2/12/2021  
 Starting Temperature: 400 °C (For SIT)

**Flash Ignition Temperature (FIT) Data:**

**Ambient Conditions:**

Ambient Temp.: 73.4° F  
 Ambient R.H.: 45% R.H.  
 Sensor Asset No.: 00587

	1	2	
Specimen Number:	127409	127410	<u>Average</u>
Specimen Mass (g):	3.83	4.16	4.00
T2 Temp. (°C):	429	419	
Ignition:	Glowing Combustion	None	
Observations:			

If ignition is "Rapid Temperature Rise" this is defined as a rapid rise in T1 in comparison to T2.

**Flash Ignition Temperature (FIT): 429 °C**

**Spontaneous Ignition Temperature (SIT) Data:**

**Ambient Conditions:**

Ambient Temp.: 73.4° F  
 Ambient R.H.: 45% R.H.  
 Sensor Asset No.: 00587

	7	8	11	12	
Specimen Number:	127415	127416	127419	127420	<u>Average</u>
Specimen Mass (g):	4.43	4.22	3.79	3.99	4.11
T2 Temp. (°C):	400	449	439	429	
Ignition:	None	Glowing Combustion	Glowing Combustion	None	
Observations:	charred, no ignition	Charred, glowing upon specimen removal		charring only; no ignition	

If ignition is "Rapid Temperature Rise" this is defined as a rapid rise in T1 in comparison to T2.

**Spontaneous Ignition Temperature, a.k.a. Self-Ignition Temperature (SIT): 439 °C**

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