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 specimesn under the particular conditoins 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 Modifications: Due to specimen composition and layers, specimen masses were slightly larger than the 3.0 ± 0.2g specimen mass 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 (kg/m^3): 543

Conditioning:

Specimens were conditioned at 73.4±3.6 °F and 50±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)

Apparatus:	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

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	Average
Specimen Number:	127409	127410	
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	Average
Specimen Number:	127415	127416	127419	127420	
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