



Test Report

Report No.: AJFS2304001985RS

Date: APR.20, 2023

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CLEAR FORM WALL SYSTEMS PTY LTD

26A HARPSTREET, CAMPSIE, NSW 2194

Sample Name: PLASTIC SHEET + CONCRETE

Color: CLEAR

Style/Item No.: /

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

Test Requested:

AS/NZS 3837:1998 (Incorporating Amendment No.1) Method of Test for Heat and Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter.

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : MAR.23, 2023

Test Performing Date : MAR.23, 2023 TO APR.06, 2023

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Echo Li

Approved Signatory



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I. Test Conducted

This test was conducted in according with AS/NZS 3837:1998(*Incorporating Amendment No.1*) Method of Test for Heat and Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter, under the horizontal orientation and Heat flux 50kW/m².

II. Sample Description and Conditioning

Sample description	Plastic sheet + Concrete
Color	Clear + Grey
Thickness	About 50mm
Sample size	100mm×100mm
Test face	Clear surface
Substrate	Concrete (47.8mm)
Precondition	Specimens shall be conditioned to constant mass at an ambient temperature of (23 ±2) °C and a relative humidity of (50±5)%.

III. Test Result

The exposed surface area of the test specimen / m ²	0.0088			
Distance between the cone base plate and the upper specimen surface / mm	25			
Sample number	1	2	3	Average
Thickness / mm	50	50	50	50
Heat flux / kW/m ²	50	50	50	50
Exhaust system flow rate / m ³ /s	0.024	0.024	0.024	0.024
Initial mass / g	1028.2	1125.1	1137.0	1096.8
Remained mass / g	972.8	1098.3	1099.4	1056.8
Percentage of the total mass pyrolyzed / (%)	5.4	2.4	3.3	3.7
Sample Mass Loss / kg/m ²	6160.0	2970.0	4170.0	4433.3
Average Mass Loss Rate / g.m ⁻² .s ⁻¹	4.2	4.6	4.5	4.4
Flashing or transitory flaming time at / s	—	—	—	---
Time to sustained flaming / s	—	—	—	---
Whether re-insert the spark igniter ³⁾	No	No	No	---
Maximum heat release rate per unit area / kW/m ²	20.9	34.1	39.7	31.5
Average heat release rate per unit area for 60s after ignition / kW/m ²	—	—	—	—
Average heat release rate per unit area for 180s after ignition / kW/m ² ²⁾	—	—	—	—
Average heat release rate per unit area for 300s after ignition / kW/m ²	—	—	—	—



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Total heat release / MJ/m ²	9.5	7.1	7.2	7.9
Average effective heat of combustion / MJ/kg	—	—	—	---
Average specific extinction area (ASEA) / m ² /kg	226.7	246.1	253.5	242.1
Test duration / s ³⁾	1206.0	952.0	932.0	1030.0
Additional observations ⁴⁾	None			

Remark:

- 1) If the flame extinguishes in less than 60 s after turning off the spark, re-insert the spark igniter and turn on the spark within 5 s, do not remove the spark until the entire test is completed.
- 2) The 180 s mean heat release readings shall be compared for the three specimens. If any of these mean readings differ by more than 10 % from the arithmetic mean of the three readings, then a further set of three specimens shall be tested unless the mean value is less than 10 kW m⁻².
- 3) Collect all data until —
 - ☐ 2 min after any flaming or other signs of combustion cease.
 - ☒ the average mass loss over a 1 min period has dropped below 150 g/m².
 - ☐ 60 min have elapsed, whichever occurs first.
- 4) Observe and record physical changes to the sample such as melting, swelling, and cracking.
- 5) The orifice constant is 0.038



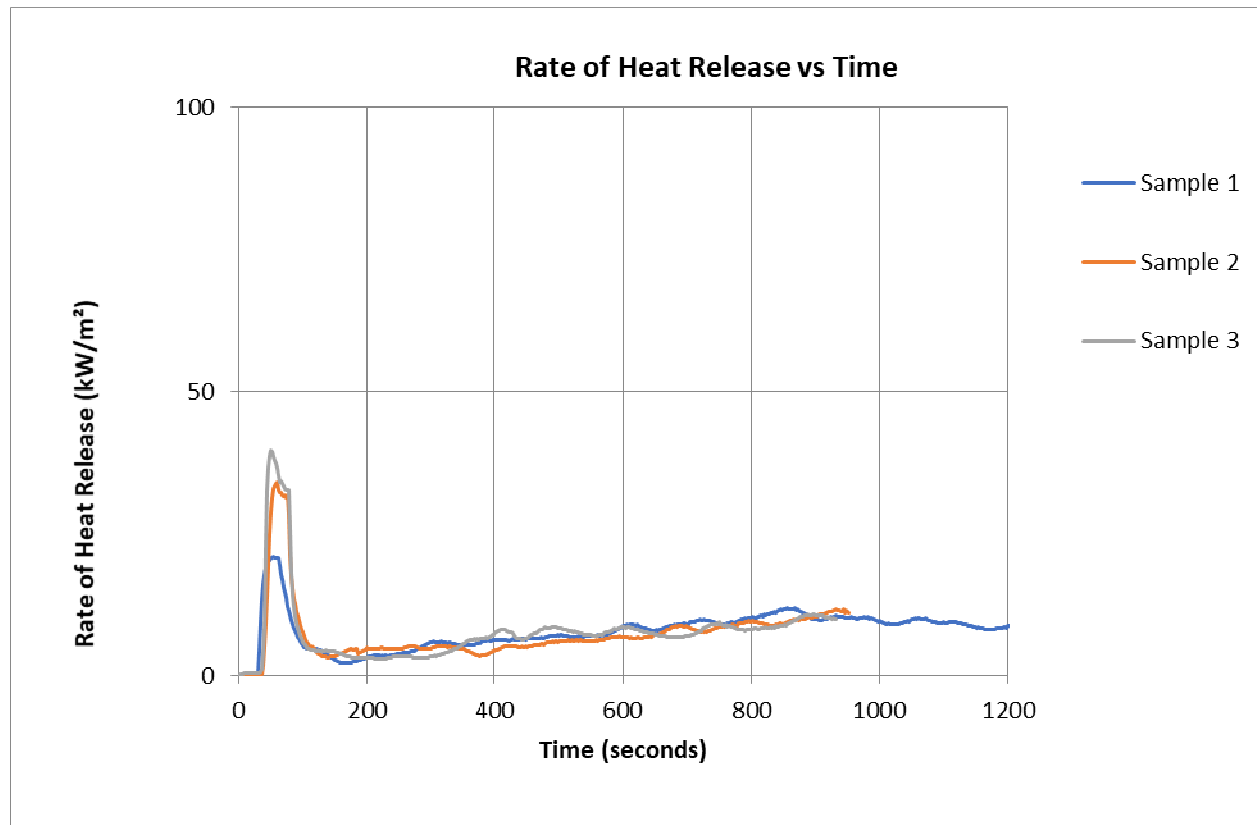
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Curves:



Statements:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



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