

Bellaterra: April 02<sup>nd</sup>, 2020  
File number: **20/21732-491**  
Petitioner: **CELO FIJACIONES S.L.**  
C/ Rosselló, 7  
08221 Castellar del Vallès  
(Barcelona)

## TEST REPORT

Date Sample Received: 2020-02-27  
Date Testing Performed: Start: 2020-03-02  
End: 2020-03-09

### OBJECT OF THE TEST

Determination of the flammability of a sample based on the UL-94:2017 standard: « Test for flammability of plastic materials for parts in devices and appliances. »

### CHARACTERISTICS OF THE SAMPLE

Some samples of polymeric material and fibres with bluish grey core and white fibres colour were received from the petitioner and with the following indications according to the petitioner:

« Product reference: Smart Fiberglass Strut. SFS. (1355)

Fibre and resin profile system (plastic).

Manufacturer: CELO FIJACIONES S.L Address: C/ Rosselló, 7, 08221 Castellar del Vallès (Barcelona)

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**TEST REQUESTED**

Vertical combustion test according to section 8 of the UL-94:2017 standard.

**RESULTS**

The specimen conditioning according to section 8.4 of the UL94:2017 standard and according to the following procedure:

- A- Group of samples at (23±2) °C y (50±10) % relative humidity during a minimum of 48 hours.
- B- Group of sample at (70±2) °C during (168±2) hours and cooling in desiccator for at least 4 hours at room temperature, prior to testing.

**VERTICAL FLAME TEST**

Environmental conditions: 20.1 °C and 49 % RH

**Conditioning A**

Samples	I	II	III	IV	V
a) Afterflame time after first flame application (t <sub>1</sub> ) (in sec)	0	0	0	0	0
b) Afterflame time after second flame applications (t <sub>2</sub> ) (in sec)	0	0	0	0	0
c) Afterglow time after second flame application (t <sub>3</sub> ) (in sec)	2	4	1	1	1
d) Total Afterflame (t <sub>1</sub> plus t <sub>2</sub> for the 5 specimens) (in sec)	0				
e) Afterflame plus afterglow time for each individual specimen after the second flame application (t <sub>2</sub> + t <sub>3</sub> ) (in sec)	2	4	1	1	1
d) Afterflame or afterglow of any specimen up to the holding clamp	NO	NO	NO	NO	NO
e) Cotton indicator ignited by flaming particles or drops	NO	NO	NO	NO	NO

**Conditioning B**

Samples	I	II	III	IV	V
a) Afterflame time after first flame application ( $t_1$ ) (in sec)	0	0	0	0	0
b) Afterflame time after second flame applications ( $t_2$ ) (in sec)	0	0	0	0	0
c) Afterglow time after second flame application ( $t_3$ ) (in sec)	2	1	0	0	0
d) Total Afterflame ( $t_1$ plus $t_2$ for the 5 specimens) (in sec)	0				
e) Afterflame plus afterglow time for each individual specimen after the second flame application ( $t_2 + t_3$ ) (in sec)	2	1	0	0	0
d) Afterflame or afterglow of any specimen up to the holding clamp	NO	NO	NO	NO	NO
e) Cotton indicator ignited by flaming particles or drops	NO	NO	NO	NO	NO

**CLASSIFICATION CRITERIA**

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen $t_1$ or $t_2$	≤10s	≤30s	≤30s
Total afterflame time for any condition set ( $t_1$ plus $t_2$ for the 5 specimens)	≤50s	≤250s	≤250s
Afterflame plus afterglow time for each individual specimen after the second flame application ( $t_2+t_3$ )	≤30s	≤60s	≤60s
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

**Conclusion:**

**The results of the sample (Reference: 1355) COMPLIES with the requirements corresponding to the classification in accordance with UL 94:2017 – Paragraph 8:**

**94 V-0**

Responsible of Reaction to Fire  
LGAI Technological Center S.A. (APPLUS)

Responsible Technician of Reaction to Fire  
LGAI Technological Center S.A. (APPLUS)

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The results refer exclusively to the samples tested at the time and under the conditions indicated.

**Applus+** guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with.

In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+, at the following address: [satisfaccion.cliente@applus.com](mailto:satisfaccion.cliente@applus.com)

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