



FEDERATIVE REPUBLIC OF BRAZIL

ALEX CARDOSO CUNHA

PUBLIC SWORN TRANSLATOR AND COMMERCIAL INTERPRETER – Enrollment 057/2010

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Duly commissioned by the Board of Trade, Industry and Services of the State of Rio Grande do Sul, Brazil, and qualified according to legislation in force, I, Alex Cardoso Cunha, hereby certify that the document described below was presented to me for translation from Portuguese into English.

Book No. 39 - Translation No.: 0570/2026

This document is a test report.

[Header with logo on all pages: Instituto SENAI de Inovação – Engenharia de Polímeros].

TEST REPORT No. 877/21].

CLIENT: Core Case Suprimentos de Sondagem e Geologia Ltda.

Rodovia A 280 A, 7355 – Itinga.

Araquari – SC.

SAMPLE DESCRIPTION:

Sample consisting of two boxes made of polymeric material, with the characteristics shown in Figure 1, identified by the client as “Caixa Adapt HQ-2”. Service Order No. 877/21 of April 19, 2021.

[Image applied].

Figure 1. Receipt of the sample to be tested.

SAMPLING:

Responsibility of the requester.

TEST REQUESTED:

- Flammability of Plastic Materials, according to standard ASTM D635:2018.

RESULTS OBTAINED:

Table 1. Burning test results according to ASTM D635:2018.

Sample conditioning: 72 h at (23 ± 2)°C / (50 ± 5)% RH								
Spec.	Thickness (mm)	Width (mm)	Reached 25 mm mark	Reached 100 mm mark	Burned Length L (mm)	Flame Time (s)	Burning Rate (mm/min)	Classification according to ASTM D635
1	1.81	13.05	Yes	Yes	75	127	35.4	HB
2	1.78	13.12	Yes	Yes	75	121	37.2	HB
3	1.75	13.06	Yes	Yes	75	123	36.6	HB
Average							36.4	-

[Image applied]. **(a)** Sample before testing.

[Image applied]. **(b)** Sample after testing.

Figure 2. Sample before testing **(a)** and sample after testing **(b)**.

Classification according to the Standard:

The material was tested to meet the requirements of standard ASTM D635:2018. The flammability test shall be classified as HB if it meets one of the items presented in Table 2.

Table 2. Classification in the burning test according to ASTM D635:2018.

Item	Conditions and Criteria
1	No visible signs of combustion after removal of the burner.
2	If, after removal of the burner, the flame does not go beyond the 25 mm mark.
3	If, after removal of the burner, the flame passes the 25 mm mark but does not reach the 100 mm mark.
4	No tested specimen shall exceed a burning rate of 40 mm/minute over a distance of 75 mm, having a thickness between 3.0 and 13 mm.
5	No tested specimen shall exceed a burning rate of 75 mm/minute over a distance of 75 mm, having a thickness of less than 3 mm.

CONCLUSIONS:

After the test was performed, it was verified that the tested sample **met** the requirements specified in the reference standard ASTM D635:2018, in accordance with Item 5 of the classification table: “No tested specimen shall exceed a burning rate of 75 mm/minute over a distance of 75 mm, having a thickness of less than 3 mm”. Therefore, the sample is considered to be classified as **HB**.

METHOD/PROCEDURE USED:

Flammability of Plastic Materials (Horizontal Burning)	Test methodology according to standard ASTM D635:2018, item 9. Standard test Method for rate of burning and/or extent and time of burning of plastics in a horizontal position.
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	Fuel gas used: Natural Gas 3 specimens with approximate dimensions of 127.0 x 13.1 x 1.8 mm were machined and tested. Sample conditioning: 72 hours, (23 ± 2)° C and (50 ± 5)% relative humidity prior to the test. “This test method shall be used to measure and describe the response of materials, products or devices to heat and flame under controlled laboratory conditions and shall not be used to describe or appraise the fire risk of materials, products or devices under actual fire conditions. However, results of this test method may be used as elements of a fire risk assessment that considers all of the factors that are pertinent to an assessment of the fire hazard of a particular use.”
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Notes:

Test report issued electronically.

Environmental Conditions of the Testing Laboratory:

Temperature: 23±2°C.

Relative Humidity: 50±5%.

Test period: April 19, 2021 to April 23, 2021.

Issue date: April 23, 2021.

[Digital signature applied: Digitally signed by LUCAS HEINEMANN:99977850020. Date: 2021.04.23 12:18:34 -03'00'].

[Signature applied: **Lucas Heinemann**. Laboratory Coordinator. CREA RS 145775].

[Signature applied: **Maicon Ricardo Gerhardt**. Laboratory Technician].

[Footer on all pages: The result(s) is (are) valid exclusively for the tested sample(s).

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[Logo applied: SENAI].

[Page numbering: Page 1 of 3 - Page 2 of 3 - Page 3 of 3].]

In witness whereof I declare that there was nothing else in the original document presented to me and it was fully and faithfully translated by me on this public instrument of translation on October 06th 2026, in Porto Alegre, Rio Grande do Sul, Brazil. This translation has legal force in Brazil and all foreign countries.

ALEX CARDOSO CUNHA:72755296020

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