AIDIMME
INSTITUTO TECNOLÓGICO

CLASSIFICATION REPORT

ENAC ENSAYOS Nº 13/LE027 Nº 13/LE1416

NUMBER	**221.C.1707.041.EN.01**	Work sheet: **21703963**
DATE OF ISSUE	**July 17th, 2017**	
TEST SPECIMEN	**Sample corresponding to a furniture made with polyethylene by rotational molding, all according to the information provided by the client, and referenced by the same as:** **Reference: "MOBILIARIO POLIETILENO"**	
TEST	**UNE EN 1021-1:15 and UNE EN 1021-2:15.** **ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE.**	
APPLICANT	**VONDOM, S.L.U.** **AVDA DE VALENCIA 3** **46891 EL PALOMAR (VALENCIA) - SPAIN**	
OBTAINED RESULTS	**According to the test results included on the report with reference 221.I.1707.041.ES.01 (date of issue: July 17th, 2017), the sample previously described and referenced by the client as "MOBILIARIO POLIETILENO", shows NO IGNITION when exposed to sources of ignition of a cigarette and flame equivalent to a match, in the test that determine the ignitability of upholstered furniture, according to the standards UNE EN 1021-1:15 y UNE EN 1021-2:15.**	

AUTORIZED SIGNATORIES

AIDIMME

Signed.: Mr. Stephane García Malpartida
Head of Reaction to Fire Lab

Document digitally signed by a legal electronic signature.

The result of this/these certificate only refers to the object/s tested in AIDIMME.

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TEST CERTIFICATE

NUMBER	**221.Z.1510.055.EN.01**	Worksheet: **21502018**
DATE OF ISSUE	**28th October, 2015**	

TEST SPECIMEN	**Sample corresponding to a furniture made with polyethylene resin, all according to the information provided by the client, and referenced by the same as:** ➢ **"MOBILIARIO POLIETILENO"**
TEST	**Flammability testing for upholstered furniture according to resolution A.652 (16) of IMO (MARITIME FIRE SAFETY STANDARDS)**
APPLICANT	**VONDOM, S.L.U.** **AVDA VALENCIA 3** **46891 PALOMAR (VALENCIA)**
OBTAINED RESULTS	**According to the test results included on the report with reference 221.I.1510.055.ES.01 (date of issue: 28th October 2015), the sample previously described and referenced by the client as "MOBILIARIO POLIETILENO", shows no ignition, and therefore PASS RESULT, when exposed to sources of ignition of a cigarette and flame equivalent to a match, under the test conditions specified in the report**

AUTORIZED SIGNATORY

Signed.: Mr. Stephane García Malpartida
Head of Reaction to Fire Lab

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AIDIMME, METAL-PROCESSING, FURNITURE, WOOD AND PACKAGING TECHNOLOGY INSTITUTE

NOTIFIES:

That the company **VONDOM, S.L**, has carried out the tests for the evaluation of the flammability of upholstered furniture according to the standards UNE EN 1021-1: 15 and UNE EN 1021-2: 15 for the following products referenced in AIDIMME as:

- 1707052-01. “Mobiliario polietileno”
- 1707053-01. ”Mobiliario polipropileno”

According to tests reported in report with reference 221.I.1707.041.ES.01 (date of issue: July 17th, 2017), the samples mentioned above, present NO IGNITION against the sources of ignition of a cigarette and a flame equivalent to a match in the tests that determine the flammability of upholstered furniture, according to UNE EN 1021-1: 15 and UNE EN 1021-2: 15 standards.

According to section 0.3 "Method of use" of British Standard BS 5852: 06, the flammability of cigarettes described in EN 1021-1 is equivalent to "ignition source 0", as well as the match flammability described in The EN 1021-2 is equivalent to the "ignition source 1". Therefore, the results contained in the report mentioned above are equivalent.

And for the record and the appropriate effects, where appropriate, the present document is signed, in Paterna, on July seventeen of two thousand and seventeen. (7/17/2017).

Signed: Mr. Stephane García Malpartida
Head of Fire Lab. AIDIMME

AIDIMME. INSTITUTO TECNOLÓGICO METALMECÁNICO, MUEBLE, MADERA, EMBALAJE Y AFINES

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AIDIMME
INSTITUTO TECNOLÓGICO

TEST REPORT

NUMBER	**221.I.1707.042.EN.01** Work sheet: **21704071**
DATE OF ISSUE	**July 17th, 2017**
PAGES	**The report consists of 6 pages consecutively numbered.**
TEST SPECIMENS	**Type: FURNITURE** **Reference: "MOBILIARIO POLIETILENO" and "MOBILIARIO POLIPROPILENO"**
TEST	**UNI 9175:2010** **Reaction to fire of upholstered furniture by applying a small flame.**
APPLICANT	**VONDOM, S.L.U.** **AVDA DE VALENCIA 3** **46891 EL PALOMAR (VALENCIA) - SPAIN**
DATE/S OF TEST	**Reception of specimens: 06/07/2017** **Beginning of tests: 11/07/2017** **End of tests: 11/07/2017**

AUTORIZADED SIGNATORIES

Signed.: Mrs. Raquel Cánovas Ruiz	**Signed.: Mr. Stephane García Malpartida**
Technician of Reaction to Fire Lab	**Head of Reaction to Fire Lab**

Document digitally signed by a legal electronic signature

The test sample object of this report will remain in AIDIMME for a period of thirty days form the date of issuance thereof. After this period, the sample will be destroyed, so any claim must be carried out within these limits

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1. SAMPLE TEST

1.1. Description and Identification of the ítem tested. Inspection prior the test.

Sample corresponding to a piece of furniture made with polyethylene by rotational molding, all according to the information provided by the client, and referenced by the same as:

- "MOBILIARIO POLIETILENO"
  (Ref. AIDIMME: 1707052-02)

Sample corresponding to a piece of furniture made with polypropylene by injection of plastic, all according to the information provided by the client, and referenced by the same as:

- "MOBILIARIO POLIPROPILENO"
  (Ref. AIDIMME: 1707053-02)

1.2. Origin of the sample.

Sample supplied by the customer.

2. CARRIED OUT TEST

2.1. Requested test.

Reaction to fire of upholstered furniture according to Italian regulations.

2.2. Adaption of the test, method or procedure to standards.

The corresponding test method is conducted as indicated in the standards:

- Reaction to fire of upholstered furniture by applying a small flame, s/n UNI 9175: 10.

3. TEST METHOD

Test preparation.

The samples are conditioned at 80 ± 5 °C of temperature and at a relative humidity of 80 ± 5 % at least 72 hours, and before the test, a conditioning of 23 ± 2 °C of temperature and at a relative humidity of 50 ± 5 %, for a minimum of 48 hours.

Sources of Ignition.

There is an ignition source consisting of a flame whose height is 40 ± 2 mm, with different times of application:

- Flame source (45±2) ml/min – (20 seconds)
- Flame source (45±2) ml/min – (80 seconds)
- Flame source (45±2) ml/min – (140 seconds)

Procedure.

The ignition source is applied to the interposed seat-back zone, 50 mm from the ends of any mark caused by an earlier test and the behavior of the assembly is observed.

The specimen passes the test if the ignition ceases within 120 seconds after the removal of the burner tube by which the flame is applied.

Conversely, if the inflammation persists after 120 seconds from the burner removal, the specimen does not pass the test.

However, it is also necessary to check that the test frame is disassembled once the test is completed, if there is internal progressive combustion (smoldering) through the entire thickness, in which case the test will not pass either.

The three tests are carried out according to the progressive order of the application time of the flame, first 20 seconds, then 80 seconds and finally 140 seconds, so that if one does not pass the test, the next application is not carried out.

The classification of the product tested is performed as follows:

- If the product does not pass the first test (20 seconds), it should not be classified
- If the product passes the first test (20 seconds), it is classified as 3 IM
- If the product passes the first two tests (20 and 80 seconds), it is classified as 2 IM
- If the product passes all tests (20, 80 and 140 seconds), it is classified as 1 IM

4. TEST RESULTS

Reaction to fire of upholstered furniture by applying a small flame

Sample (Reference)	Test results according to ignition source times								
	20 s	tpc	tpi	80 s	tpc	tpi	140 s	tpc	tpi
"MOBILIARIO POLIETILENO" (Ref.: 1707052-01)	Pass	0	0	Pass	0	0	Pass	0	0
"MOBILIARIO POLIETILENO" (Ref.: 1707052-01)	Pass	0	0	Pass	0	0	Pass	0	0
"MOBILIARIO POLIPROPILENO" (Ref.: 1707053-01)	Pass	0	0	Pass	0	0	Fail	≥ 120	0
"MOBILIARIO POLIPROPILENO" (Ref.: 1707053-01)	Pass	0	0	Pass	0	0	Fail	≥ 120	0

tpc: post-combustion time (s) tpi: post-incandescence time (s)

Note: "The following test results relate only to the ignitability of a combination of different materials under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use"

5. RESULTS ASSESSMENTS

Therefore, and in view of the results:

The sample labelled by the customer as **"MOBILIARIO POLIETILENO"** described in the point 1.1 presents a classification CLASSE 1 IM (ONE I M), according to the standard UNI 9175:2010

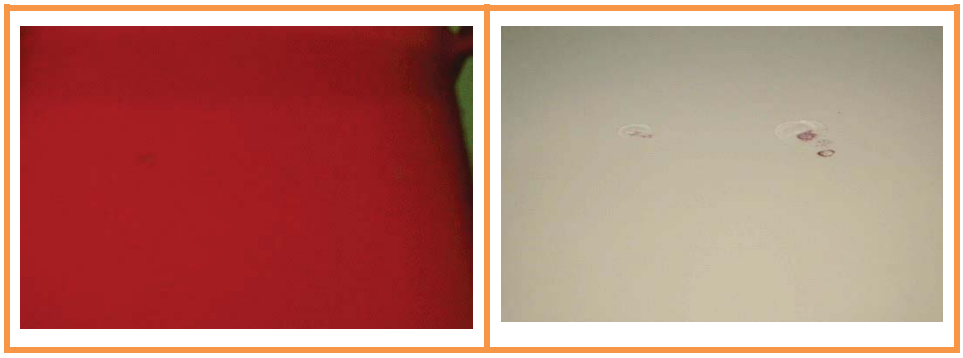
The sample labelled by the customer as **"MOBILIARIO POLIPROPILENO"** described in the point 1.1 presents a classification CLASSE 2 IM (TWO I M), according to the standard UNI 9175:2010

6. PHOTOGRAPHS AFTER TESTING

- "MOBILIARIO POLIETILENO" (Ref.: 1707052-01)

Sample detail after testing

- "MOBILIARIO POLIPROPILENO" (Ref.: 1707053-01)



Sample detail after testing

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Date: 29/05/09

Petitioner: PLASTIKEN, S.L.U.
Av. delatencia, n°3
46891 PALOMAR
Att.D.Ignacio Ballester Perez

GLOW WIRE UP TO 960°C

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PRESCRIPTIONS

1.- This report is a true copy of the report filed in AIMME's general files.

2.- AIMME is only responsible for the results stated in the report and referred exclusively to the materials, samples or equipment indicated therein. Unless expressly mentioned, the samples or equipment have been freely chosen and sent by the applicant.

3.- This Research Association is not responsible in any case for the interpretation or misuse that may be made of this document, whose partial reproduction without the authorization of AIMME is totally prohibited. Reproduction for advertising purposes must have the express authorization of AIMME.

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5.- None of the indications made in this report can have the character of guarantee for the commercial brands, or the products / machinery analyzed, which in its case are mentioned.

6.- In case of possible discrepancies between reports, a check will be made directly at the Head Office of this Research Association. Likewise, the applicant is obliged to notify this Center of any claim received, the cause of which is a different result from the infoi'me issued by AIMME, exempting this Center from any responsibility, in case of not doing so, and considering the conservation periods mentioned below.

7.- The materials or samples on which tests are carried out shall be kept at the Center for three months after the issuance of the report, after which time they shall be destroyed. Therefore, any verification or claim that the applicant may wish to make, if applicable, must be exercised within the indicated period.

8.- In the case of equipment calibration reports, clause 7 is not applicable. For this type of report, the results issued refer exclusively to the state and condition of the equipment at the time of calibration.

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APPENDIX(2Pages)

GASPAR LLORET
Deputy Director

1. **INTRODUCTION**

1.1. MATERIAL PROVIDED

On May 14, 2009 a test tube of thermoplastic material belonging to the company PLASTIKEN, S.L.U. was delivered with the following characteristics:

TRADEMARK:	PLASTIKEN
PRODUCT:	TEST TUBE OF THE POTTING BUCKET 80
THICKNESS:	4min
REFERENCE:	CUBE 80
MEASUREMENTS:	60x60inni
GWFI:	700/4

Note: The above information has been provided by the manufacturer.

1.2 REQUESTED SERVICE

Glow wire test up to 960°C according to the test procedure reflected in UNE-EN 60695-2-10:02, UNE EN 60695-2-12:01.

Note:

GWFI: Highest test temperature, along sample lengths with a given thickness.

2. STUDY CONDUCTED

Test date: Test 27/05/09
standards: UNE-EN 60695-2-10:02 UNE-EN 60695-2-12:01

Equipment used:

- Glow wire apparatus, MA03011 1033
- Stopwatch, MA990001

Results obtained.

After performing the glow wire test, according to the reference standards, the sample is considered to satisfy the glow wire test at 700°C and is identified with the GWFI value of 700/4

Annex I. Results obtained
Annex II. Photographs

VERDICT OF THE SECTIONS (V)

The paragraph does not apply to the salad sample: NA

The miiestra meets the requirements of the paragraph: C

The sample does not meet the requirements of the section: NC

The requirements of the section have not been evaluated: NR

Remark on the results of paragraph tNüm.): OBS 0

Note: All sections and tables referred to in the "Requirements" column shall correspond to the standard or application procedure specified in **the "TESTING PROCEDURES" section of** this document.

JUANJSO ´ GONZALEZ
Head of Laboratody and

ANNEX I. TEST RESULTS

TEST CONDITIONS:

T: 23 * 1 (°C) RH:46 2 (%RH)

CHARACTERISTICS OF THE SAMPLE:

THICKNESS: 0.5 mm MEASUREMENTS: 60 x 60 mm METHOD OF PRODUCTION: SCREEN CUTTING PART NUMBER: 22GVCA603 CONDITIONING: - SAMPLE (48h) 23 + 2°C 45 - 75 %RH PAPER AND WOOD(24h) 15 - 35°C 45 - 55%RH

GLOW WIRE; MA030111033 DIGITAL STOPWATCH; MA990001

GWFI:60695-2-12

NUMBER OF SAMPLES: 3

SURFACE TO BE TESTED ☐ VERTICAL POSITION

ESSAY	IGNITION TIMING	RESULT
550° + 10K	ti you	NR
600° + 10K	ti you	NR
650° + 10K	ti you	NR
700° + 10K	ti 0s te 0s	C
750° + 10K	ti ls te >60s	NC
800° + 15K	ti you	NR
850° + 15K	ti you	NR
900° + 15K	ti you	NR
960° * 15K	ti you	NR

ti= Time from application to ignition
te= Time from application to extinction (within 30s afterwards) GWFI VALUE

700/4

ANNEX II.
PHOTOGRAPHS