

CLASSIFICATION REPORT

NUMBER	221.Z.1707.041.EN.01	Work sheet: 21703963
DATE OF ISSUE	July 17th, 2017	
TEST SPECIMEN	Sample corresponding to a furniture made with polypropylene by injection of plastic, all according to the information provided by the client, and referenced by the same as: Reference: "MOBILIARIO POLIPROPILENO"	
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 17 th , 2017), the sample previously described and referenced by the client as "MOBILIARIO POLIPROPILENO", 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.	
AUTHORIZED SIGNATORIES		




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

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

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TEST CERTIFICATE

NUMBER 221.Z.1602.033.EN.01 Worksheet: **21600327**
DATE OF ISSUE 18th February, 2016

TEST SPECIMEN Sample corresponding to a furniture made with polypropylene reinforced with fiberglass, all according to the information provided by the client, and referenced by the same as:

- "MOBILIARIO POLIPROPILENO REFORZADO CON FIBRA DE VIDRIO"

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.1602.033.ES.01 (date of issue: 18th February 2016), the sample previously described and referenced by the client as "MOBILIARIO POLIPROPILENO REFORZADO CON FIBRA DE VIDRIO", 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.

AUTHORIZED SIGNATORY



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

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CERTIFICADO DE ENSAYO

NÚMERO	221.C.1602.033.ES.01	Hoja de encargo: 21600327
FECHA DE EMISIÓN	18 de febrero de 2016	
MUESTRA DE ENSAYO	Muestra correspondiente a mobiliario fabricado en polipropileno reforzado con fibra de vidrio, todo ello según información facilitada por el cliente, y referenciada por el mismo como: ➤ “MOBILIARIO POLIPROPILENO REFORZADO CON FIBRA DE VIDRIO”	
ENSAYO	Determinación de la inflamabilidad del mobiliario tapizado según resolución A.652 (16) del IMO (MARITIME FIRE SAFETY STANDARDS)	
SOLICITANTE	VONDOM, S.L.U. AVDA. VALENCIA 3 46891 PALOMAR (VALENCIA)	
RESULTADOS OBTENIDOS	Según ensayos que constan en el informe de referencia 221.I.1602.033.ES.01 (fecha de emisión: 18 de febrero de 2016), la muestra descrita en el apartado anterior y referenciada por el cliente como “MOBILIARIO POLIPROPILENO REFORZADO CON FIBRA DE VIDRIO” , presenta no ignición y por tanto RESULTADO POSITIVO , frente a las fuentes de ignición de cigarrillo y llama equivalente a una cerilla, bajo las condiciones de ensayo especificadas en el informe.	

SIGNATARIO/S AUTORIZADO/S



Fdo.: D. Stephane Garcia Malpartida
Responsable Lab. Reacción al Fuego

El resultado del presente ensayo/s no concierne más que al objeto/s ensayado/s.

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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, EMBALAJES Y AFINES

COMUNICA:

Que la empresa **VONDOM, S.L**, ha realizado los ensayos para la evaluación de la inflamabilidad de mobiliario tapizado según la normativa UNE EN 1021-1:15 y UNE EN 1021-2:15 para los siguientes productos referenciados en AIDIMME como:

- 1707052-01. "Mobiliario polietileno"
- 1707053-01. "Mobiliario polipropileno"

Según ensayos que constan en el informe de referencia 221.I.1707.041.ES.01 (fecha de emisión: 17 de julio de 2017), las muestras mencionadas anteriormente, presentan NO IGNICIÓN frente a las fuentes de ignición de un cigarrillo y de una llama equivalente a una cerilla en los ensayos que determinan la inflamabilidad del mobiliario tapizado, según las normas UNE EN 1021-1:15 y UNE EN 1021-2:15.

Según lo dispuesto en el apartado 0.3 "Method of use" de la norma británica BS 5852:06, la inflamabilidad de cigarrillo descrita en la EN 1021-1 es equivalente a la "ignition source 0", así como la inflamabilidad de cerilla descrita en la EN 1021-2 es equivalente a la "ignition source 1". Por tanto, los resultados que figuran en el informe mencionado anteriormente son equivalentes.

Y para que conste y surta los efectos oportunos donde corresponda, se firma el presente documento, en Paterna, a diecisiete de julio de dos mil diecisiete. (17/07/2017).




Fdo: Stephane García Malpartida
Responsable Laboratorio Fuego AIDIMME

TEST REPORT

NUMBER	221.I.1707.042.EN.02*	Work sheet: 21704071
DATE OF ISSUE	July 17th, 2017	
PAGES	The report consists of 7 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
Technician of Reaction to Fire Lab



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

* This test report cancels and replaces the test report with reference 221.I.1707.042.EN.01

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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 item 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)

In the following table are shown all the products made of the tested polypropylene:

ANNEX I					
REF.	DESCRIPTION	FAMILY	TYPE	PROCESS	MATERIAL
45012	SABINAS SILLON	SABINAS	CHAIR	INJECTION	POLYPROPYLENE
47070	VASES SILLON 68x51x80	VASES	CHAIR	INJECTION	POLYPROPYLENE
47071	VASES TABURETE 40x42x88	VASES	STOOL	INJECTION	POLYPROPYLENE
47092	VASES TABURETE 40x42x65	VASES	STOOL	INJECTION	POLYPROPYLENE
51031	VOXEL SILLON	VOXEL	CHAIR	INJECTION	POLYPROPYLENE
51033	VIKING SILLA	VERTEX	CHAIR	INJECTION	POLYPROPYLENE
51033F	VIKING SILLA LACADA	VERTEX	CHAIR	INJECTION	POLYPROPYLENE
54044	FAZ SILLA (base inox lacado)	FAZ	CHAIR	INJECTION	POLYPROPYLENE
54045	FAZ SILLON (base inox)	FAZ	CHAIR	INJECTION	POLYPROPYLENE
54062	FAZ SILLA patas policarbonato	FAZ	CHAIR	INJECTION	POLYPROPYLENE
54063	FAZ SILLON policarbonato	FAZ	CHAIR	INJECTION	POLYPROPYLENE
54162	FAZ TABURETE 76cm ALTO	FAZ	STOOL	INJECTION	POLYPROPYLENE
54163	FAZ TABURETE 66cm BAJO	FAZ	STOOL	INJECTION	POLYPROPYLENE
54164	FAZ TABURETE BRAZOS 76cm ALTO	FAZ	STOOL	INJECTION	POLYPROPYLENE
54165	FAZ TABURETE BRAZOS 66cm BAJO	FAZ	STOOL	INJECTION	POLYPROPYLENE
54194	QUARTZ SILLA	QUARTZ	CHAIR	INJECTION	POLYPROPYLENE
54194F	QUARTZ SILLA LACADA	QUARTZ	CHAIR	INJECTION	POLYPROPYLENE
54195	QUARTZ SILLA con brazos	QUARTZ	CHAIR	INJECTION	POLYPROPYLENE
54195F	QUARTZ SILLA con brazos LACADA	QUARTZ	CHAIR	INJECTION	POLYPROPYLENE
54196	QUARTZ MESA	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54197	QUARTZ SILLA PLEGABLE	QUARTZ	CHAIR	INJECTION	POLYPROPYLENE
54197F	QUARTZ SILLA PLEGABLE LACADA	QUARTZ	CHAIR	INJECTION	POLYPROPYLENE
54198	QUARTZ MESA Ø59cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54198B	QUARTZ MESA Ø59cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54199	QUARTZ MESA Ø69cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54199B	QUARTZ MESA Ø69cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE

54200	QUARTZ MESA Ø79cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54200B	QUARTZ MESA Ø79cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54201	QUARTZ MESA Ø90cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54201B	QUARTZ MESA Ø90cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54202	QUARTZ MESA Ø100cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54202B	QUARTZ MESA Ø100cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54203	QUARTZ MESA 59x59cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54203B	QUARTZ MESA 59x59cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54204	QUARTZ MESA 69x69cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54204B	QUARTZ MESA 69x69cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54205	QUARTZ MESA 79x79cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54205B	QUARTZ MESA 79x79cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54206	QUARTZ MESA 120x70cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54206B	QUARTZ MESA 120x70cm F.W.	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54217	QUARTZ MESA 180x80cm	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
54218	QUARTZ MESA Ø79 4 patas	QUARTZ	TABLE	INJECTION	POLYPROPYLENE
55022	SOLID SOFA 180x83x81	SOLID	SOFA	INJECTION	POLYPROPYLENE
55023	SOLID BUTACA 84x80x81	SOLID	ARMCHAIR	INJECTION	POLYPROPYLENE
55024	SOLID SILLA 49x53x80	SOLID	CHAIR	INJECTION	POLYPROPYLENE
55025	SOLID MESA 86x86x75	SOLID	TABLE	INJECTION	POLYPROPYLENE
55026	SOLID MESA BAJA 102x71x35	SOLID	TABLE	INJECTION	POLYPROPYLENE
55027	SOLID SILLON 65x60x80	SOLID	CHAIR	INJECTION	POLYPROPYLENE
56015	SPRITZ SILLA con brazos 59x53x81	SPRITZ	CHAIR	INJECTION	POLYPROPYLENE
56016	SPRITZ SILLA 51x53x81	SPRITZ	CHAIR	INJECTION	POLYPROPYLENE
56017	SPRITZ SILLON 58x54x81	SPRITZ	CHAIR	INJECTION	POLYPROPYLENE
56018	SPRITZ MESA ALTA 50x50x100	SPRITZ	TABLE	INJECTION	POLYPROPYLENE
56019	SPRITZ TABURETE 50x46x97 ALTO	SPRITZ	STOOL	INJECTION	POLYPROPYLENE
56020	SPRITZ TABURETE 50x45x87 BAJO	SPRITZ	STOOL	INJECTION	POLYPROPYLENE
56021	SPRITZ SET MESA+2 TABURETES BAJOS	SPRITZ	TABLE	INJECTION	POLYPROPYLENE
56022	SPRITZ SET MESA+2 TABURETES ALTOS	SPRITZ	TABLE	INJECTION	POLYPROPYLENE
64017	KES SILLA con brazos 60x53x78	KES	CHAIR	INJECTION	POLYPROPYLENE
64018	KES SILLA 54x53x78	KES	CHAIR	INJECTION	POLYPROPYLENE
64019	KES MESA 80x80x73	KES	TABLE	INJECTION	POLYPROPYLENE
65004	PEDRERA SILLON 58x62x83	PEDRERA	CHAIR	INJECTION	POLYPROPYLENE
65005	AFRICA SILLON 58x53x75	AFRICA	CHAIR	INJECTION	POLYPROPYLENE
65005F	AFRICA SILLON 58x53x75 LACADO	AFRICA	CHAIR	INJECTION	POLYPROPYLENE
65006	WALL STREET SILLON	WALLSTREET	CHAIR	INJECTION	POLYPROPYLENE
65006F	WALL STREET SILLON LACADO	WALLSTREET	CHAIR	INJECTION	POLYPROPYLENE
65017	WALL STREET TABURETE	WALLSTREET	STOOL	INJECTION	POLYPROPYLENE
65027	BROOKLYN TABURETE Ø 45x76 ALTO	BROOKLYN	STOOL	INJECTION	POLYPROPYLENE
65028	BROOKLYN TABURETE Ø44x66 BAJO	BROOKLYN	STOOL	INJECTION	POLYPROPYLENE
65029	AFRICA TABURETE ALTO	AFRICA	STOOL	INJECTION	POLYPROPYLENE
65030	AFRICA TABURETE BAJO	AFRICA	STOOL	INJECTION	POLYPROPYLENE
65034	BROOKLYN TABURETE Ø 44x54 BAJO	BROOKLYN	STOOL	INJECTION	POLYPROPYLENE

65036	AFRICA SILLA 52x51x80	AFRICA	CHAIR	INJECTION	POLYPROPYLENE
65036F	AFRICA SILLA LACADA	AFRICA	CHAIR	INJECTION	POLYPROPYLENE
65037	BROOKLYN SILLA	BROOKLYN	CHAIR	INJECTION	POLYPROPYLENE
65037F	BROOKLYN SILLA LACADA	BROOKLYN	CHAIR	INJECTION	POLYPROPYLENE
65038	BROOKLYN SILLA con brazos	BROOKLYN	CHAIR	INJECTION	POLYPROPYLENE
66026	DELTA SILLA con brazos	DELTA	CHAIR	INJECTION	POLYPROPYLENE
66026F	DELTA SILLA con brazos LACADA	DELTA	CHAIR	INJECTION	POLYPROPYLENE

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