

## CLASSIFICATION REPORT

<b>NUMBER</b>	<b>221.Z.1707.041.EN.01</b>	Work sheet: <b>21703963</b>
<b>DATE OF ISSUE</b>	<b>July 17<sup>th</sup>, 2017</b>	
<b>TEST SPECIMEN</b>	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"	
<b>TEST</b>	UNE EN 1021-1:15 and UNE EN 1021-2:15. ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE.	
<b>APPLICANT</b>	VONDOM, S.L.U. AVDA DE VALENCIA 3 46891 EL PALOMAR (VALENCIA)- SPAIN	
<b>OBTAINED RESULTS</b>	According to the test results included on the report with reference 221.I.1707.041.ES.01 (date of issue: July 17 <sup>th</sup> , 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.	
<b>AUTHORIZED SIGNATORIES</b>		


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

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<b>NUMBER</b>	<b>221.Z.1602.033.EN.01</b>	Worksheet: <b>21600327</b>
<b>DATE OF ISSUE</b>	<b>18<sup>th</sup> February, 2016</b>	

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<b>TEST SPECIMEN</b>	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:
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- "MOBILIARIO POLIPROPILENO REFORZADO CON FIBRA DE VIDRIO"

<b>TEST</b>	Flammability testing for upholstered furniture according to resolution A.652 (16) of IMO (MARITIME FIRE SAFETY STANDARDS)
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<b>APPLICANT</b>	VONDOM, S.L.U. AVDA VALENCIA 3 46891 PALOMAR (VALENCIA)
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<b>OBTAINED RESULTS</b>	According to the test results included on the report with reference 221.I.1602.033.ES.01 (date of issue: 18 <sup>th</sup> February 2016), the sample previously described and referenced by the client as "MOBILIARIO POLIPROPILENO REFORZADO CON FIBRA DE VIDRIO", shows no ignition, and therefore <b>PASS RESULT</b> , when exposed to sources of ignition of a cigarette and flame equivalent to a match, under the test conditions specified in the report.
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**AUTHORIZED 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 17<sup>th</sup>, 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

## TEST REPORT

<b>NUMBER</b>	<b>221.I.1707.042.EN.03*</b>	Work sheet: <b>21704071</b>
<b>DATE OF ISSUE</b>	July 17 <sup>th</sup> , 2017	
<b>PAGES</b>	The report consists of 8 pages consecutively numbered.	
<b>TEST SPECIMENS</b>	Type: <b>FURNITURE</b> Reference: <b>“MOBILIARIO POLIETILENO”</b> and <b>“MOBILIARIO POLIPROPILENO”</b>	
<b>TEST</b>	UNI 9175:2010 Reaction to fire of upholstered furniture by applying a small flame.	
<b>APPLICANT</b>	VONDOM, S.L.U. AVDA DE VALENCIA 3 46891 EL PALOMAR (VALENCIA) - SPAIN	
<b>DATE/S OF TEST</b>	Reception of specimens: <b>06/07/2017</b>	Beginning of tests: <b>11/07/2017</b>
	End of tests: <b>11/07/2017</b>	

### 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.02

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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					
Nº Product	Description	Collection	Typology	Process	Material
65039	IBIZA BUTACA	IBIZA	CHAIR	Injection	Polypropylene
55023	SOLID BUTACA 84x80x81	SOLID	CHAIR	Injection	Polypropylene
56024	SPRITZ BUTACA	SPRITZ	CHAIR	Injection	Polypropylene
54198	QUARTZ MESA Ø59cm	QUARTZ	TABLE	Injection	Polypropylene
54199	QUARTZ MESA Ø69cm	QUARTZ	TABLE	Injection	Polypropylene
54200	QUARTZ MESA Ø79cm	QUARTZ	TABLE	Injection	Polypropylene
54201	QUARTZ MESA Ø90cm	QUARTZ	TABLE	Injection	Polypropylene
54202	QUARTZ MESA Ø100cm	QUARTZ	TABLE	Injection	Polypropylene
54203	QUARTZ MESA 59x59cm	QUARTZ	TABLE	Injection	Polypropylene
54204	QUARTZ MESA 69x69cm	QUARTZ	TABLE	Injection	Polypropylene
54205	QUARTZ MESA 79x79cm	QUARTZ	TABLE	Injection	Polypropylene
54218	QUARTZ MESA Ø79 4 patas	QUARTZ	TABLE	Injection	Polypropylene
54203B	QUARTZ MESA 59x59cm Solid Core	QUARTZ	TABLE	Injection	Polypropylene
54204B	QUARTZ MESA 69x69cm Solid Core	QUARTZ	TABLE	Injection	Polypropylene
54205B	QUARTZ MESA 79x79cm Solid Core	QUARTZ	TABLE	Injection	Polypropylene
55025	SOLID MESA 86x86x75	SOLID	TABLE	Injection	Polypropylene
56018	SPRITZ MESA ALTA 50x50x100	SPRITZ	TABLE	Injection	Polypropylene
56021	SPRITZ SET MESA+2 TABUR.BAJOS	SPRITZ	TABLE	Injection	Polypropylene
56022	SPRITZ SET MESA+2 TABUR.ALTOS	SPRITZ	TABLE	Injection	Polypropylene
65046	IBIZA MESA	IBIZA	TABLE	Injection	Polypropylene
55026	SOLID MESA BAJA 102x71x35	SOLID	TABLE	Injection	Polypropylene
56026	SPRITZ MESA SOFA 96x59x40	SPRITZ	TABLE	Injection	Polypropylene
56028	SPRITZ MESA TUMBONA 45x45x28	SPRITZ	TABLE	Injection	Polypropylene

56029	SPRITZ MESA 59x59x28	SPRITZ	TABLE	Injection	Polypropylene
56030	SPRITZ MESA 59x59x40	SPRITZ	TABLE	Injection	Polypropylene
51038	VOXEL MESA TUMBONA 42x42x28	VOXEL	TABLE	Injection	Polypropylene
65005	AFRICA SILLÓN 58x53x75 cm	AFRICA	CHAIR	Injection	Polypropylene
65036	AFRICA SILLA 52x51x80	AFRICA	CHAIR	Injection	Polypropylene
65005F	AFRICA SILLON 58x53x75 LACADO	AFRICA	CHAIR	Injection	Polypropylene
65036F	AFRICA SILLA LACADA	AFRICA	CHAIR	Injection	Polypropylene
65037	BROOKLYN SILLA	BROOKLYN	CHAIR	Injection	Polypropylene
65038	BROOKLYN SILLA con brazos	BROOKLYN	CHAIR	Injection	Polypropylene
65037F	BROOKLYN SILLA LACADA	BROOKLYN	CHAIR	Injection	Polypropylene
65038F	BROOKLYN SILLA con brazos LACADA	BROOKLYN	CHAIR	Injection	Polypropylene
66026	DELTA SILLA con brazos	DELTA	CHAIR	Injection	Polypropylene
66026F	DELTA SILLA con brazos LACADA	DELTA	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 base policarbonato	FAZ	CHAIR	Injection	Polypropylene
54063	FAZ SILLON base policarbonato	FAZ	CHAIR	Injection	Polypropylene
54044F	FAZ SILLA LACADA (base inox lacado)	FAZ	CHAIR	Injection	Polypropylene
54045F	FAZ SILLON LACADA (base inox)	FAZ	CHAIR	Injection	Polypropylene
54062F	FAZ SILLA LACADA pie policarbonato	FAZ	CHAIR	Injection	Polypropylene
54063F	FAZ SILLON LACADA policarbonato	FAZ	CHAIR	Injection	Polypropylene
54294	FAZ WOOD SILLON	FAZWOOD	CHAIR	Injection	Polypropylene
54295	FAZ WOOD SILLA	FAZWOOD	CHAIR	Injection	Polypropylene
65040	IBIZA SILLA	IBIZA	CHAIR	Injection	Polypropylene
65041	IBIZA SILLON alas	IBIZA	CHAIR	Injection	Polypropylene
65044	IBIZA SILLA CON BRAZOS	IBIZA	CHAIR	Injection	Polypropylene
64017	KES SILLA con brazos 60x53x78	KES	CHAIR	Injection	Polypropylene
64018	KES SILLA 54x53x80	KES	CHAIR	Injection	Polypropylene
64017F	KES SILLA con brazos LACADA	KES	CHAIR	Injection	Polypropylene
64018F	KES SILLA LACADA	KES	CHAIR	Injection	Polypropylene
54299	KIMONO SILLA	KIMONO	CHAIR	Injection	Polypropylene
65042	LOVE SILLA	LOVE	CHAIR	Injection	Polypropylene
65043	LOVE SILLA MINI	LOVE	CHAIR	Injection	Polypropylene
65042F	LOVE SILLA LACADA	LOVE	CHAIR	Injection	Polypropylene
65043F	LOVE SILLA MINI LACADA	LOVE	CHAIR	Injection	Polypropylene
65004	PEDRERA SILLÓN 58x62x83	PEDRERA	CHAIR	Injection	Polypropylene
65004F	PEDRERA SILLÓN LACADO	PEDRERA	CHAIR	Injection	Polypropylene
54194	QUARTZ SILLA	QUARTZ	CHAIR	Injection	Polypropylene
54195	QUARTZ SILLA con brazos	QUARTZ	CHAIR	Injection	Polypropylene
54197	QUARTZ SILLA PLEGABLE	QUARTZ	CHAIR	Injection	Polypropylene

54194F	QUARTZ SILLA LACADA	QUARTZ	CHAIR	Injection	Polypropylene
54195F	QUARTZ SILLA con brazos LACADA	QUARTZ	CHAIR	Injection	Polypropylene
45012	SABINAS SILLÓN	SABINAS	CHAIR	Injection	Polypropylene
45012F	SABINAS SILLÓN LACADA	SABINAS	CHAIR	Injection	Polypropylene
55024	SOLID SILLA 49x53x80 cm	SOLID	CHAIR	Injection	Polypropylene
55027	SOLID SILLÓN 65x60x80	SOLID	CHAIR	Injection	Polypropylene
56015	SPRITZ SILLA brazos 59x53x81	SPRITZ	CHAIR	Injection	Polypropylene
56016	SPRITZ SILLA 51x53x81	SPRITZ	CHAIR	Injection	Polypropylene
56017	SPRITZ SILLÓN 58x54x81	SPRITZ	CHAIR	Injection	Polypropylene
47070	VASES SILLÓN 60x51x81	VASES	CHAIR	Injection	Polypropylene
47070F	VASES SILLÓN 60x51x81 LAC	VASES	CHAIR	Injection	Polypropylene
51031	VOXEL SILLON	VOXEL	CHAIR	Injection	Polypropylene
51033	VOXEL SILLA	VOXEL	CHAIR	Injection	Polypropylene
51036	VOXEL SILLA MINI	VOXEL	CHAIR	Injection	Polypropylene
51031F	VOXEL SILLON LACADO	VOXEL	CHAIR	Injection	Polypropylene
51033F	VOXEL SILLA LACADA	VOXEL	CHAIR	Injection	Polypropylene
65006	WALL STREET SILLON 57x53x80 cm	WALLSTREET	CHAIR	Injection	Polypropylene
65006F	WALL STREET SILLON LACADO	WALLSTREET	CHAIR	Injection	Polypropylene
55022	SOLID SOFÁ 180x83x81	SOLID	SOFA	Injection	Polypropylene
56025	SPRITZ SOFA	SPRITZ	SOFA	Injection	Polypropylene
65029	AFRICA TABURETE ALTO	AFRICA	STOOL	Injection	Polypropylene
65030	AFRICA TABURETE BAJO	AFRICA	STOOL	Injection	Polypropylene
65029F	AFRICA TABURETE ALTO LACADO	AFRICA	STOOL	Injection	Polypropylene
65030F	AFRICA TABURETE BAJO LACADO	AFRICA	STOOL	Injection	Polypropylene
65027	BROOKLYN TABURETE Ø 45x76 ALTO	BROOKLYN	STOOL	Injection	Polypropylene
65028	BROOKLYN TABURETE Ø44x66 BAJO	BROOKLYN	STOOL	Injection	Polypropylene
65028F	BROOKLYN TABURETE BAJO LACADO	BROOKLYN	STOOL	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
54162F	FAZ TABURETE 76cm ALTO LACADO	FAZ	STOOL	Injection	Polypropylene
54163F	FAZ TABURETE 66cm BAJO LAC	FAZ	STOOL	Injection	Polypropylene
54164F	FAZ TABURETE BRAZOS 76cm ALTO LAC	FAZ	STOOL	Injection	Polypropylene
65050	IBIZA TABURETE ALTO	IBIZA	STOOL	Injection	Polypropylene
65051	IBIZA TABURETE BAJO	IBIZA	STOOL	Injection	Polypropylene
56019	SPRITZ TABURETE 50x46x97 ALTO	SPRITZ	STOOL	Injection	Polypropylene



56020	SPRITZ TABURETE 50x45x87 BAJO	SPRITZ	STOOL	Injection	Polypropylene
47071	VASES TABURETE 40x43x89	VASES	STOOL	Injection	Polypropylene
47071F	VASES TABURETE 40x43x89 LAC	VASES	STOOL	Injection	Polypropylene
51040	VOXEL TABURETE	VOXEL	STOOL	Injection	Polypropylene
65017	WALL STREET TABURETE	WALLSTREET	STOOL	Injection	Polypropylene
65045	IBIZA TUMBONA	IBIZA	SUN LOUNGER	Injection	Polypropylene
56027	SPRITZ TUMBONA	SPRITZ	SUN LOUNGER	Injection	Polypropylene
51035	VOXEL TUMBONA	VOXEL	SUN LOUNGER	Injection	Polypropylene
65048	AFRICA TUMBONA	IBIZA	SUN LOUNGER	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  $80 \pm 5$  °C of temperature and at a relative humidity of  $80 \pm 5$  % at least 72 hours, and before the test, a conditioning of  $23 \pm 2$  °C of temperature and at a relative humidity of  $50 \pm 5$  %, for a minimum of 48 hours.

### **Sources of Ignition.**

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

- Flame source ( $45 \pm 2$ ) ml/min – (20 seconds)
- Flame source ( $45 \pm 2$ ) ml/min – (80 seconds)
- Flame source ( $45 \pm 2$ ) 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.

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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

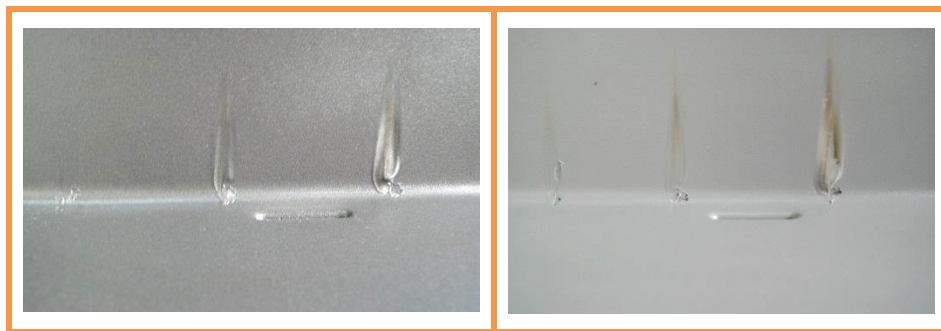
Therefore, and in view of the results:

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