

INSTITUTO DE CIÊNCIA E INOVAÇÃO EM ENGENHARIA MECÂNICA E ENGENHARIA INDUSTRIAL



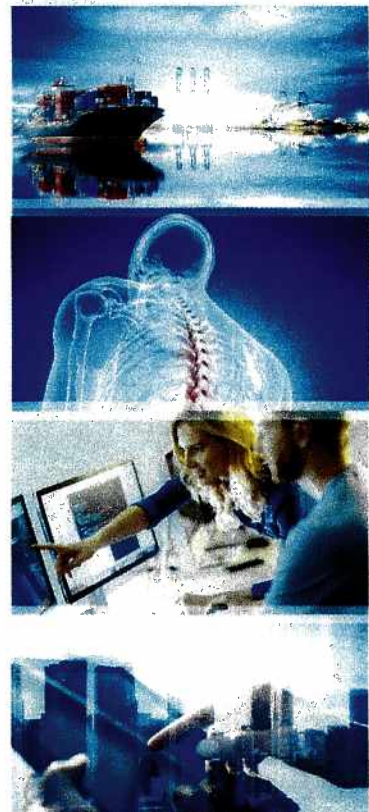
Laboratório de Fumo e Fogo

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FIRE REACTION TESTS

GIERLINGS VELPOR S.A.

TEST REPORT Nr LFF.2019.120



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0 Document Control and Identification

0.1 Document Identification

Project	---
Document Name	Test Report Nr LFF.2019.120
Document File Name	---

0.2 Version Control

Version	Edition	Revision	Date	Description	Approved by
1	1	0	2019-07-02	Original version	JMG

0.3 Author(s)

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0.6 Distribution list

Name	Initials	Entity
Laboratório de Fumo e Fogo	LFF	INEGI
---	---	Gierlings Velpor S.A.

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0.7 - Identification

Client: Gierlings Velpor S.A.

Address: Rua da Rosinha, nº 74
Portela Alta, Água Longa
4825-109 Santo Tirso
Portugal

Request: Fire Reaction Classification According to French Standards

Request Reference: PE30190560

Request Date: 2019-06-21

Material Reference: 8321 (black velvet – 100% CO)

Reception Date: 2019-06-18

Test Date: 2019-07-01

Report Date: 2019-07-02

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1 - Scope

The reported tests concern the determination of the fire reaction class of a product of the reference 8321 (black velvet – 100% CO) to be used in decoration.

2 - Methodology

Test	Test procedure
Electric burner	NF P 92-503: 1995

The classification method was applied according to the standard NF P 92-507, issued in February 2004.

3 - Specimens

3.1 – Dimension and conditioning

The specimens were prepared in the laboratory from a sample supplied by the client and had the following dimensions:

Reference	Length (mm)	Width (mm)	Thickness (mm)	Mass (g)	Direction
LFF.2019.120.01	601	182	2.4	63.8	Longitudinal
LFF.2019.120.02	601	180	2.4	64.6	Longitudinal
LFF.2019.120.03	600	181	2.4	65.4	Transversal
LFF.2019.120.04	598	181	2.4	65.2	Transversal

Prior to testing, the specimens were conditioned for a period of 312 hours at 23 ± 2 °C and 50 ± 5 % relative humidity, having met the constant mass criterion.

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4 – Results

4.1 – Electric burner (NF P 92-503)

The tests have been performed on the electric burner with the radiation incident on the material's velvety face or non-velvety face, on specimens cut crosswise and lengthwise, producing the following results:

Reference	LFF.2019.120.01			LFF.2019.120.02			LFF.2019.120.03			LFF.2019.120.04		
Tested face	Front			Reverse			Front			Reverse		
Time of igniter actuation	B	E	D	B	E	D	B	E	D	B	E	D
20 " - 25 "	---	---	---	---	---	---	---	---	---	---	---	---
45 " - 50 "	---	---	---	---	---	---	---	---	---	---	---	---
1' 15 " - 1'20 "	---	---	---	---	---	---	---	---	---	---	---	---
1' 45 " - 1'50 "	---	---	---	---	---	---	---	---	---	---	---	---
2' 15 " - 2'20 "	---	---	---	---	---	---	---	---	---	---	---	---
2' 45 " - 2'50 "	---	---	---	---	---	---	---	---	---	---	---	---
3' 15 " - 3'20 "	---	---	---	---	---	---	---	---	---	---	---	---
3' 45 " - 3'50 "	---	---	---	---	---	---	---	---	---	---	---	---
4' 15 " - 4'20 "	---	---	---	---	---	---	---	---	---	---	---	---
4' 45 " - 4'50 "	---	---	---	---	---	---	---	---	---	---	---	---
Destruction length from the lower edge of the specimen (mm)	170			190			175			200		
Destruction width from 450 to 600 mm (mm)	0			0			0			0		
Time of max. inflammation (s)	0			0			0			0		
Average length burnt (mm)							184					
Average width burnt (mm)							0					

B – Beginning of inflammation; E – End of inflammation; D – Duration of inflammation after removing the igniter;

Complementary observations

On course of the tests, moderate/abundant gray smoke has been released from the area of the test specimen subject to the action of the flame or the irradiation in an amount such that it accumulated in the upper surrounding area.

There was no inflammation or perforation of the specimen or dropping.

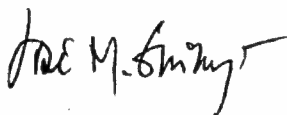
The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

5 – Conclusion

Considering the above tests results, the material, according to NF P 92-507, is classified as **M1**.

This classification document is valid for 5 (five) years.

Porto, July 2, 2019



José Mesquita Guimarães
Laboratory Technical Director

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