



Testing. Advising. Assuring.

Test report

No. 2018-1765-1

issued 25.09.2018

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Date of order: 13.09.2018
Date of sampling: no official taking out of the specimen from a representative of the Exova Warringtonfire, Frankfurt
Date of delivery: 14.09.2018
Date of test: 21.09.2018 and 11.10.2018

Order:

Determination of the ignition time according to EN 1101 (ISO 6940) and of the vertical flame spread according to DIN EN 13772 with classification to DIN EN 13773.

Description / designation of the test object

Product name: Marble

Description of the relevant test procedure

DIN EN 1101 (09-2005) i. g. EN ISO 6940 (Version 1995)

DIN EN 13772 (04-2011)

DIN EN 13773 (05-2003)



1. Description of the test material

1.1 Details of the customer:

Product name:	Marble
Face to be tested:	Face side (marked on the article)
Description:	
Name:	Marble
Product:	Curtain
Colour:	Blue
Weight:	230 g/m ²
Composition:	100% Flame retardant polyester
Intended end use of product:	Curtain

1.2 At the specimen preparation from Exova Warringtonfire, Frankfurt determined values:

Fabric sample

Colour:	grey/green
Thickness:	0,4 mm
Square weight:	234 g/m ²
Pretreatment:	Material tested as delivered

Testing after clima storing 23°C and 50% humidity

2.1.1 Test sheet according to DIN EN 1101 (09-2005) or EN ISO 6940 (version 1995) (Determination of the ignition time)

Test room: 21°C / 40% r. L.F.

Ignition times: 1 - 4 s

Specimen no.		1	2	3	4	5	6	7	8
Test direction	L/C	L	L	L	L	C	C	C	C
Kind of ignition	E/S	E	E	E	E	E	E	E	E
Ignition time	[s]	1	2	3	4	1	2	3	4
Total burn time	[s]	1	2	2	2	1	2	4	6
After flame time	[s]	0	0	0	0	0	0	1	2
After glow time	[s]	0	0	0	0	0	0	0	0
After flaming ≥ 5 [s]	yes/no	no	no	no	no	no	no	no	no
Reaching of the upper edge of the specimen	yes/no	no	no	no	no	no	no	no	no
Reaching the side edges	yes/no	no	no	no	no	no	no	no	no
Drop of from sample parts*	yes/no	no	no	no	no	no	no	no	no
Ignition of the filter paper*	yes/no	no	no	no	no	no	no	no	no
Ignition	yes/no	no	no	no	no	no	no	no	no

If not the case, - L = length C = crosswise S = surface E = edge

Remarks: none

EN ISO 6940 (1995) paragraph 8.6

...The ignition has taken place, if either the flame on the sample further on at least 5 seconds after the flame is removed, or remove the sample after the flame blows up to the top edge or edges to the vertical.

2.1.2 Test sheet according to DIN EN 1101 (09-2005) or EN ISO 6940 (version 1995) (Determination of the ignition time)

Test room: 21°C / 40% r. L.F.

Ignition times: 5 - 20 s

Specimen no.		9	10	11	12	13	14	15	16
Test direction	L/C	L	L	L	L	C	C	C	C
Kind of ignition	E/S	E	E	E	E	E	E	E	E
Ignition time	[s]	5	10	15	20	5	10	15	20
Total burn time	[s]	3	3	3	3	2	4	3	4
After flame time	[s]	0	0	0	0	0	0	0	0
After glow time	[s]	0	0	0	0	0	0	0	0
After flaming ≥ 5 [s]	yes/no	no	no	no	no	no	no	no	no
Reaching of the upper edge of the specimen	yes/no	no	no	no	no	no	no	no	no
Reaching the side edges	yes/no	no	no	no	no	no	no	no	no
Drop of from sample parts*	yes/no	no	no	no	no	no	no	no	no
Ignition of the filter paper*	yes/no	no	no	no	no	no	no	no	no
Ignition	yes/no	no	no	no	no	no	no	no	no

If not the case, - L = length C = crosswise S = surface E = edge

Remarks: none

Determined ignition time: none

EN ISO 6940 (1995) paragraph 8.6

...The ignition has taken place, if either the flame on the sample further on at least 5 seconds after the flame is removed, or remove the sample after the flame blows up to the top edge or edges to the vertical.

2.2.1 Test results according to DIN EN 13772: (Determination of the vertical flame spread)

Impact time of the radiator: 30s

Ignition time: 10 s

Specimen no.		1	2	3	4	5	6
Test direction	L/C	L	L	L	C	C	C
Kind of ignition	S/E	E	E	E	E	E	E
Ignition time	[s]	10	10	10	10	10	10
Total burn time	[s]	0	0	0	0	0	0
After flame time	[s]	0	0	0	0	0	0
After glow time	[s]	0	0	0	0	0	0
Reaching the 1. mark in	[s]	-	-	-	-	-	-
Reaching the 2. mark in	[s]	-	-	-	-	-	-
Reaching the 3. mark in	[s]	-	-	-	-	-	-
Flame spread v1	[mm/min]	0	0	0	0	0	0
Flame spread v2	[mm/min]	0	0	0	0	0	0
Flame spread v3	[mm/min]	0	0	0	0	0	0
Separating of sample parts*	yes/no	yes	yes	yes	yes	yes	yes
Ignition of the filter paper*	yes/no	no	no	no	no	no	no
Destroyed area length	[mm]	120	120	130	130	140	120
Destroyed area width	[mm]	60	70	70	70	70	60

If not the case, - L = length C = crosswise S = surface E = edge

Remarks: no ignition only melting.

2.2.2 Appearance of the specimen after the tests

Specimen after the test according to EN 13772 length and cross to direction of production



3. Classification:

The material described in chapter 1 fulfills the requirements of the class 1 according to DIN EN 13773.

Classification DIN EN 13773				
Determination of ignition time according to EN 1101 (ISO 6940)				
ignition		No ignition		
Determination of vertical flame spread according to DIN EN 1102		Determination of vertical flame spread according to DIN EN 13772		
class 5 3. marking thread broken or burning falling sample parts	class 4 3 marking thread didn't break any falling burning sample	class 3 3. marking thread broken or burning falling sample parts	class 2 3. marking thread didn't break any falling burning sample parts	class 1 1. marking thread didn't break, no falling burning sample parts

Special comment

The fire test result is only valid for the material described in chapter 1, in the tested colour and surface weight.

In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the above classification is not any longer valid.

The burning behaviour in combination with other materials has to be tested separately.

This test report replaces the report 2018-1765 issued 25.09.2018 (date of signature) which is invalid from now on.

Frankfurt, 11th October 2018



H. Anders
Tester in Charge



P. Scheinkönig
Senior Test Officer



The results of the tests relate only to the behaviour of the test specimen which is designated in chapter one. Test reports are only allowed to be published or reproduced, not changed in form and tenor without permission of the Exova Warringtonfire, Frankfurt.

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This test report is a translation of the German version 2018-1765-1 (issued 25.09.2018). In case of doubt only the German version is valid.

The report contains 7 pages.