



Testing. Advising. Assuring.

Test report no. 2016-1116

for applying of a required "Verwendbarkeitsnachweis"
issued 23.02.2016

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Date of order: 28.01.2016
Date of sampling: *no official sampling of the specimen by a representative of Exova Warringtonfire, Frankfurt*
Date of arrival: 28.01.2016
Date of test: 19.02.2016

Order

Testing of the normal flammability (Building Class B2) according to DIN 4102-1 (May 1998)

Description / designation of the test object

Trade name: Chess Royal

Description of the relevant test procedure

DIN 4102 part 1 (May 1998)

This test report does not replace the required „Verwendbarkeitsnachweis“ (official approval document). It is only used for issuing the "Verwendbarkeitsnachweis".

1. Description of the test material

1.1 Details of the customer:

Trade name: Chess Royal

Application: Upholstery
Material: 100% Wool
Type of production: Weaved
Thickness: 2 mm
Square weight: 555 g/lm
Color: 02406
Flame-retardant(s) used: No

1.2 By Exova Warringtonfire, Frankfurt determined values:

Fabric

Colour: grey

Thickness: 0,81 mm

Sample weight: 402 g/m²

The samples were stored 14 days before testing under climatic conditions (23°C / 50 % rel. humidity).

2. Test results

2.1 Normal flammability test according to DIN 4102-1

Test with edge ignition without deposit
 Flame application on: lower specimen edge

Length direction:

Specimen-no.	1	2	3	4	5
Ignition point [s]	1	1	1	1	1
Reaching the measuring mark (150 mm) within 20 seconds	no	no	no	no	no
Self-extinguishing of the flame [s]	15	15	15	15	15
Max. flame height [mm]	50	40	50	40	40
Time [s]	7	6	8	7	7
Afterflaming [s]	-	-	-	-	-
Afterglowing [s]	-	-	-	-	-
Flames extinguished after [s]	-	-	-	-	-
Smoke development (visuell impression)	Low smoke development				
Burning droplets up to 20 sec.	no	no	no	no	no
Time [s]	-	-	-	-	-

Remarks: none

Cross direction:

Specimen-no.	1	2	3	4	5
Ignition point [s]	1	1	1	1	1
Reaching the measuring mark (150 mm) within 20 seconds	no	no	no	no	no
Self-extinguishing of the flame [s]	15	15	15	15	15
Max. flame height [mm]	40	50	50	40	50
Time [s]	8	8	8	7	7
Afterflaming [s]	-	-	-	-	-
Afterglowing [s]	-	-	-	-	-
Flames extinguished after [s]	-	-	-	-	-
Smoke development (visuell impression)	Low smoke development				
Burning droplets up to 20 sec.	no	no	no	no	no
Time [s]	-	-	-	-	-

Remarks: none

Appearance of the specimen after the small burner test:



3. Assessment

The material described in chapter one fulfils the requirements of the

Building Class B2

according to DIN 4102-1 (May 1998).

4. Special note

The fire test result is only valid for the material described in chapter one in the tested colour and square weight in free hanging configuration.

The distance towards other plane materials has to be ≥ 40 mm.

In composition with other materials (e.g. coatings, deposits) the burning behaviour can be influenced unfavourably so that the above classification is not valid any longer.


According to DIN 4102-1, the burning behaviour in composition with other materials has to be tested separately.

This test report does not replace the required „Verwendbarkeitsnachweis“. It is only used for its issue.

Frankfurt, the 23.02.2016



H. Anders
Tester in Charge



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This Test report is valid until 18.02.2021

The results of the tests relate only to the behaviour of the test specimen which is designated on the top.

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This test report is a translation of the German version 2016-1116 (issued 23.02.2016). In case of doubt only the German version is valid

The test report contains 5 pages