



INSTYTUT TECHNOLOGII DREWNA

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Notified Body N° 1583



AB 088



WOOD, WOOD-BASED MATERIALS, PACKAGING, FURNITURE, WOODEN CONSTRUCTIONS AND WORKING MACHINES TESTING LABORATORY

IGNITABILITY TESTING SECTION

Poznań, 7th July 2017

TEST REPORT No. 2040/2017/S.K/1

Subject of the order: "Ignitability tests of furniture collection SoundRoom from difference source of ignition:
Part 1 - upholstery assemblies: seats and back; smouldering cigarette and match flame equivalent"

Order No.: A-2040-BOŚ/2017

**Name and address
of the client/manufacturier**

producer: NOTI Sp. z o.o.
ul. Sowia 19
62-080 Tarnowo Podgórne
Poland

Performance date: 27.07.2017-07.07.2017

Operators:

First name and surname	Signature
Specialist Urszula Matelska	<i>U. Matelska</i>
Specialist Mirosława Radlicka	<i>dr M. Radlicka</i>

Laboratory stamp

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Authorised representative

KIEROWNIK
Sekcji Badań Palności
dr Renata Wroblewska, prof. ITD.

1. IDENTIFICATION (DESCRIPTION OF TEST SAMPLES)

The subject of tests was upholstery composition – seat and back - used by the NOTI Sp. z o.o. for the production of upholstered furniture collection SOUNDROOM.

Tested assembly:

cover material (seat and back): fabric Remix 2, producer - Kvadrat

upholstery filling: seat – polyurethane foam RF 3536, producer Eurofoam;

back – polyurethane foam RF 2528, producer Eurofoam

Identification number: A-2040-BOŚ/2017/SK/1.

2. DELIVERY DATE OF TESTED SUBJECT

Representative samples for tests taken by the Client were delivered to the Wood Technology Institute on 26th June 2017.

3. SYMBOLS AND NAMES OF TEST METHODS APPLIED

Tests were carried out based on the standardized methods according to:

- EN 1021-1:2014 FURNITURE – ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE – PART 1: IGNITION SOURCE: SMOULDERING CIGARETTE (Method 1K)
- EN 1021-2:2014 FURNITURE – ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE – PART 2: IGNITION SOURCE: MATCH FLAME EQUIVALENT (Method 2K)

4. EQUIPMENT OF THE TEST STANDS (elementary)

Mass determination stand K1:

- Analytical balance K1/1
- Laboratory balance K1/11

Upholstery assembly ignitability tests preparation stand K3:

- Equipment for water soaking and drying of upholstery covering fabric and for preparation of upholstery assembly

Ignitability test stand K2:

- Test chamber with fume cupboard
- Metal test rigs of standardized dimensions
- Thermo anemometer K4/14
- Thermometer K2/12
- Mechanical stopwatch K2/5
- Electronic stopwatch K2/44
- Standardized cigarettes
- Standardized burner – Match flame equivalent

5. TEST RESULTS

Test results are presented in the records no. 1/2040/2017/S.K/1 and 2/2040/2017/S.K/1.

6. STATEMENT

Test results presented in the record relate only to the tested samples.

The test report cannot be copied in parts, only in its entirety.

RECORD No. 1/2040/2017/S.K/1
ASSESSMENT OF IGNITABILITY OF UPHOLSTERED FURNITURE
Ignition source: smouldering cigarette
in accordance with EN 1021-1:2014

<u>Order No.:</u> A-2040-BOŚ/2017				<u>Date of test:</u> 05.07.2017
<u>Product type:</u> furniture collection SOUNDROOM				
<u>Client:</u> NOTI Sp. z o.o., ul. Sowia 19, 62-080 Tarnowo Podgórne				
<u>Sample name:</u> Upholstery composition – seat and back – used in the furniture collection SOUNDROOM				
<u>Sample identification No.:</u> A-2040-BOŚ/2017				
Tested materials – test assembly: <u>Cover material (back and seat):</u> fabric Remix 2, producer - Kvadrat; <u>upholstery filling:</u> seat – polyurethane foam RF 3536, producer Eurofoam; back – polyurethane foam RF 2528, producer Eurofoam				
The water soaking procedure of cover material according to EN 1021-1 was/ was not carried out, because				
Test results: NON-IGNITION				
Test	Cigarette			Comments
	1	2	3	
<u>Smouldering criteria</u>				
Unsafe escalating combustion	NO	NO	NO	Cigarettes No. 1, 2 and 3 were placed along the junction between the vertical and the horizontal surface of test assembly.
Test assembly consumed	NO	NO	NO	Cigarettes 1 i 2 went out after incomplete combustion – after 9'58'' (1) and after 7'31'' (2), without causing ignition.
Smoulders to extremities	NO	NO	NO	
Smoulders through thickness	NO	NO	NO	Cigarette 3 went out after complete combustion – after 24'32'' without causing ignition.
Smoulders more than 1 hour	NO	NO	NO	
In final examination, presence of active smouldering	NO	NO	NO	At the point of contact with the cigarettes the fabric charred and melted through (holes), melted. Foam slightly melted.
<u>Flaming criteria</u>				
Occurrence of flames	NO	NO	NO	Dimensions of damages: Length: 2-63 mm Width: 8-25 mm Depth: 5-7 mm
Enter YES if criteria were exceeded or NO if criteria were not exceeded.				
Signed: _____ Date: Poznań, 7.07.2017				
Urszula Matelska Mirosława Radlicka				
The above test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.				

RECORD No. 2/2040/2017/S.K
ASSESSMENT OF IGNITABILITY OF UPHOLSTERED FURNITURE
Ignition source: match flame equivalent
in accordance with EN 1021-2:2014

Order No.: A-2040-BOS/2017					Date of test: 04.07.2017
Product type: furniture collection SOUNDROOM					
Client: NOTI Sp. z o.o., ul. Sowia 19, 62-080 Tarnowo Podgórne					
Sample name: Upholstery composition – seat and back – used in the furniture collection SOUNDROOM					
Sample identification No.: A-2040-BOS/2017					
Tested materials – test assembly:					
Cover material (back and seat): fabric Remix 2, producer - Kvadrat;					
upholstery filling: seat – polyurethane foam RF 3536, producer Eurofoam;					
back – polyurethane foam RF 2528, producer Eurofoam					
The water soaking procedure of cover material according to EN 1021-2 was/was not carried out, because					
Wyniki badania: NON-IGNITION					
Badanie	Zapałka				Uwagi
	1	2	3	4	
<u>Smouldering criteria</u>					
Unsafe escalating combustion	NO	NO	NO	NO	In the study 1, 2 and 3 equivalent of a match flame was applied in the assembly test system for 15 s. In the study 4 equivalent of a match flame was applied in the assembly test system for 20 s.
Test assembly consumed	NO	NO	NO	NO	
Smoulders to extremities	NO	NO	NO	NO	After removing the burner, there was no inflammation of the upholstery components.
Smoulders through thickness	NO	NO	NO	NO	
Smoulders more than 1 hour	NO	NO	NO	NO	
In final examination, presence of active smouldering	NO	NO	NO	NO	Damages: In the place of application of ignition source, fabric charred, foam yellowish.
<u>Flaming criteria</u>					
Unsafe escalating combustion	NO	NO	NO	NO	Dimensions of damages: Length: 9 -91 mm Width: 5 -24 mm Depth: 0-1 mm
Test assembly consumed	NO	NO	NO	NO	
Flames to extremities	NO	NO	NO	NO	
Flames through thickness	NO	NO	NO	NO	
Flames longer than 120 s	NO	NO	NO	NO	
Enter YES if criteria were exceeded or NO if criteria not exceeded.					
Signed:					
Urszula Matelska	<i>U. Matelska</i>				Date: Poznań, 7.07.2017
Mirosława Radlicka	<i>M. Radlicka</i>				
The above test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.					

END OF THE TEST REPORT