



# 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, 23<sup>rd</sup> January 2018

## TEST REPORT No. 39/2018/S.K

Subject of the order: Ignitability tests of Armchair TULLI

Order No.: A-39-BOŚ/2018

Name and address of the client/  
manufacturer producer:

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

Performance date: 09.01.2018–23.01.2019

Operators:

First name and surname	Signature
Specialist Urszula Matelska	<i>U. Matelska</i>

Laboratory stamp

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KIEROWNIK  
Sekcji Badań Palności  
*dr Hanna Wróblewska, prof. ITD*

## 1. IDENTIFICATION (DESCRIPTION OF TEST SAMPLES)

The subject of tests was Armchair TULLI produced by the NOTI Sp. z o.o.  
Molded seat shell of Tulli Armchair (white), made of polyethylene. No upholstery.

Identification number: A-39-BOŚ/2018/SK.

## 2. DELIVERY DATE OF TESTED SUBJECT

Representative samples for tests taken by the Client were delivered to the Wood Technology Institute on 9<sup>th</sup> January 2018.

## 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

Ignitability test stand K2:

- Test chamber with fume cupboard
- Metal test rigs of standardized dimensions
- Thermo anemometer K4/14
- Thermometer K2/12
- Electronic stopwatch K2/44
- Standardized cigarettes
- Standardized burner – Match flame equivalent (rotameter K2/7)

## 5. TEST RESULTS

Test results are presented in the records no. 1/39/2018/S.K and 2/39/2018/S.K.

## 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. 1/39/2018/S.K**  
**ASSESSMENT OF IGNITABILITY OF UPHOLSTERED FURNITURE**  
**Ignition source: smouldering cigarette**  
**in accordance with EN 1021-1:2014**

Order No.: **A-39-BOŚ/2018**

Date of test: 16.01.2018

Product type: Armchair TULLI

Client: NOTI Sp. z o.o., Sowia 19, 62-080 Tarnowo Podgórne

Sample name: Armchair TULLI - molded seat shell

Sample identification No.: **A-39-BOŚ/2018**

Tested materials – test assembly:

Molded seat shell of Tulli Armchair; polyethylene

The water soaking procedure of cover material according to EN 1021-1 was/was not carried out.  
 Without the upholstery material.

**Test results: NON-IGNITION**

Test	Cigarette					Comments
	1	2	3	4	5	
<u>Smouldering criteria</u>						Cigarettes no. 1, 2 were placed along the junction between the vertical and the horizontal surface of the chair and other cigarettes were placed on the horizontal plane. All cigarettes went out after incomplete combustion – after 12' (1), 10' (2), 9' (3), 7'17" (4) and 8' (5), without causing ignition. At the point of contact with the cigarettes the chair was slightly melted and yellowness.
Unsafe escalating combustion	NO	NO	NO	NO	NO	
Test assembly consumed	NO	NO	NO	NO	NO	
Smoulders to extremities	NO	NO	NO	NO	NO	
Smoulders through thickness	NO	NO	NO	NO	NO	
Smoulders more than 1 hour	NO	NO	NO	NO	NO	
In final examination, presence of active smouldering	NO	NO	NO	NO	NO	Dimensions of damages: Length: 24-40 mm Width: 10-13 mm Depth: without changes
<u>Flaming criteria</u>						
Occurrence of flames	NO	NO	NO	NO	NO	

Enter YES if criteria were exceeded or NO if criteria were not exceeded.

Signed:

Date: Poznań, 19.01.2018


Urszula Matelska

*U. Matelska*

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. 2/39/2018/S.K**  
**ASSESSMENT OF IGNITABILITY OF UPHOLSTERED FURNITURE**  
**Ignition source: match flame equivalent**  
**in accordance with EN 1021-2:2014**

Order No.: <b>A-39-BOŚ/2018</b>					Date of test: 16.01.2018
Product type: Armchair TULLI					
Client: NOTI Sp. z o.o., Sowia 19, 62-080 Tarnowo Podgórne					
Sample name: Armchair TULLI - molded seat shell					
Sample identification No.: <b>A-39-BOŚ/2018</b>					
Tested materials – test assembly: Molded seat shell of Tulli Armchair; polyethylene					
The water soaking procedure of cover material according to EN 1021-2 <del>was</del> /was not carried out. Without the upholstery material.					
<b>Wyniki badania: NON-IGNITION</b>					
Test	Equivalent of a match flame				Uwagi
	1	2	3	4	
<b><u>Smouldering criteria</u></b>					In the study 1 and 2 equivalent of a match flame was applied in the junction between the vertical and the horizontal surface of the chair and in the study 3 and 4 equivalent of a match flame was applied in the horizontal surface. After removing the burner, there was no inflammation of the chair.  Damages: In the place of application of ignition source the chair was slightly melted and yellowish.  Dimensions of damages: Length: 0-17 mm Width: 0-5 mm Depth: without changes
Unsafe escalating combustion	NO	NO	NO	NO	
Test assembly consumed	NO	NO	NO	NO	
Smoulders to extremities	NO	NO	NO	NO	
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	
<b><u>Flaming criteria</u></b>					
Unsafe escalating combustion	NO	NO	NO	NO	
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:					Date: Poznań, 19.01.2018
Urszula Matelska <div style="display: inline-block; vertical-align: middle; text-align: center;">           .....       </div>					
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