# INSTYTUT TECHNOLOGII DREWNA

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

**SURFACE TESTING SECTION**

Poznań, 2018-03-20

# TEST REPORT no. 768/2018/S.H

**Subject of the order**

Testing of surface resistance (R4) of metal plate – IKEA Basic White coated with powder paint from Inver

**Order no.**

A-768-BBP/2018

**Name and address of the client**

SAZ Sp. z o.o. Sp.k.
Galicyjska st. 5
32-040 Rzeszotary
Poland

**Performance date**

March 2018

**Operator**

| First name and surname | Signature |
|---|---|
| Tomasz Oleszek | *Oleszek* |

**Authorised representative**

Dr Zofia Krzoska-Adamczak

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## 1. IDENTIFICATION (DESCRIPTION) OF THE TEST OBJECT

The tested object was a metal plate coated with powder paint.
Description of the tested object:
– substrate: steel
– type of surface coating: powder coating
– production date: 28.02.2018
– identification code of surface coating: IKEA Basic White EP112654SM.90
– lot no.: 822P011905
Producer of the coating material: Inver
The test samples in amount of 2 pieces of the sizes of (300 × 200 × 3) mm were taken
by the customer's representatives Mrs. Katarzyna Lisowska and Mr. Michał Zakrzewski
at Rzeszotary on 5.03.2018 and sent to the Wood Technology Institute, Poznań, Poland.
Before the tests, the test samples were conditioned for 1 day in the atmosphere of (23±2) °C
and (50±5) % RH.
In the laboratory, the test samples were marked with register number A-768.

## 2. DATE OF THE OBJECTS' DELIVERY FOR TESTING

The test samples were delivered on 07.03.2018.

## 3. METHODS AND SCOPE OF TESTING

Tests were carried out according to the method described in the following IKEA of Sweden
document:
– **IOS-TM-0002:2014** Surface resistance – test methods.
  **Part 1** Determination of surface resistance to scratches – metal substrates
  **Part 3** Colour fastness to rubbing – test for metal substrates
This document fulfils the IKEA methodical requirements for R4 class of surface resistance
described in IOS-MAT-0066-10 2.1.C dated 13.11.2015.

## 4. LIST OF MEASURMENT AND TEST APPARATUSES, AND MATERIALS

To perform the tests the following apparatus was used:
– apparatus for scratching test with manual linear movement, lab id no. H 12/23,
– device for colour fastness to rubbing test, lab id no. H 19/26
– viewing cabinet with D65 diffused light source, lab id no. H 17/25
  Material:
  • grey scale for assessing of staining (acc. to ISO 105-A03),
  • white copy paper as specified in IOS-TM-0002/3.

## 5. TESTS RESULTS

Tests results are presented in Table 1.

## 6. STATEMENT

Tests results presented in Table 1 refer only to the examined samples.
The test report cannot be copied in parts but only in its entirety.

Order no.: A-768-BBP/2018
Tested material: **metal plate coated with IKEA Basic White powder paint**
Producer of the coating material: Inver
Date of samples delivery: 07.03.2018

Table 1

## Surface resistance – class R4

| Tested property | | Assessment of surface | | Requirements IOS-MAT-0066-10 13.11.2015 |
|---|---|---|---|---|
| | | first test area | second test area | |
| | | rating scale 5-1 | | |
| Surface resistance to scratching [1] | 3 N | 5 | 5 | ≥ 4 |
| Colour fastness to rubbing [2] 20 × 22,5 N | Dry rubbing | 5 | 5 | |

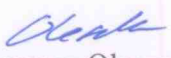[1]  Rating scale acc. to IOS-TM-0002/1:2014
    5 – Not visible.
    4 – Slightly visible. The scratch is only visible when looking in one angle of observation.
    3 – Visible. The scratch is visible independent of angle.
    2 – Clearly visible. The scratch is clearly visible independent of angle.
    1 – Strongly visible. The scratch is strongly visible independent of angle.
[2]  Rating acc. to grey scale for assessing staining (EN 20105-A03)

Tomasz Oleszek
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Operator

Zofia Krzoska-Adamczak
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Checked by

20.03.2018
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Date of test termination

The End

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