

Nobia Production Sweden AB
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SWEDEN

Testing of surface durability

(3 appendices)

Customer:	Nobia Production Sweden AB
Test object:	Kitchen cabinet door
Test method:	Möbelfakta requirements for surface durability, category 3 (see appendix 1)
Test environment:	23 ± 2°C and 50 ± 5% relative humidity
Scope:	Complete test
Date of test:	2016-05-24 – 2016-05-26
Test result:	The test results are reported in appendix 2
Reservation:	The test results in this report apply only to the particular Equipment Under Test (EUT)
Additional information:	Test method applies to: Kitchen and bathroom furnishings, external surfaces, doors and drawer fronts

SP Technical Research Institute of Sweden Sustainable Built Environment - Wood Technological Assessment

Performed by

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Appendices

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Appendix 1

Test methods and explanation of results (1 page)

Test methods:

EN 12720:2009+A1:2013 Furniture - Assessment of surface resistance to cold liquids
SS 839120:1981 Furniture and fittings - Assessment of edges' resistance to water
SIS 83 91 17:1973 Furniture and fittings for housing. Determination of surface resistance to scratches
The tests comply with Möbelfakta/Svanen requirements for surface durability, category 3

Explanation of results:

The results are graded 1-5, the lowest approved score according to möbelfakta is 4

Descriptive numerical rating code:

- | | |
|-----------|---|
| 5 | No visible or measurable changes |
| 4 | Minor change (considered not to affect the function or appearance) |
| 3 | Moderate change |
| 2 | Significant change |
| 1 | Strong change |
| Scratches | Max. scratch width 0.5 mm. Penetration of the coating is not acceptable |

Note.

For rating 4 and 5, no further information will be provided in the report

For rating 3 or lower, additional information about the rating will be reported together with the results

Appendix 2

Test results (1 page)

Test object ID: Kitchen cabinet door of MDF, 5-pieces with frame/
SH005 Nobia Grey#01, CL023 Nobia Grey#01

Dimensions (test piece): 700x400 mm, thickness 19 mm

Surface treatment: Waterborne UV-hardened paint system by Nobia
Production Sweden, 270g/m² (grey), VOC-primer on
edges

Sampling: The test object was selected by the customer

Date of arrival at
SP test laboratory: 2016-04-14

Observed defects before testing: No defects

Conditioning time in climate
23 ± 2°C and 50 ± 5% RH: 7 days

Test result: The tested object passed the test

Table 1 Test results

Test	Test liquids	Test method	Möbelfakta category 3	Rating	Results
Surface resistance to liquids	Water	EN 12720	16 h	5	Pass
Surface resistance to liquids	Fat	EN 12720	24 h	5	Pass
Surface resistance to liquids	Coffee	EN 12720	1 h	5	Pass
Edges resistance to water ¹	Water	SS 839120	1 h	5	Pass
Surface resistance to scratches		SIS 83 91 17	3 N		Pass

¹Mesurment of swelling is listed in table 2 below

Table 2 Swelling after edges exposure to water

Measure point	Before test	After one hour	After 24 hours	Thickness swelling
A	19.24	19.24	19.24	-
B	19.21	19.22	19.22	0.1
C	19.21	19.22	19.22	0.1
D	19.16	19.16	19.16	-
E	19.23	19.23	19.23	-
F	19.23	19.23	19.23	-

Appendix 3

Pictures



Figure 1



Figure 2



Figure 3