

Test Report

Test Report No.:27023417-R02

Issue Date:15/07/19(DD/MM/YY)

This report 27023417-R02 is a replacement to test report 27023417-R01 issued on 28/06/19(DD/MM/YY).

The original report was issued on 27/06/19(DD/MM/YY).

Revised parts are client and sample information on page 1-2.

Client Information:

Supplier No. : S2633
Client Company Name : P.H.ALL EXP-IMP ALEKSANDER BERNARD CIUKSZA
Contact Address : P.H.ALL EXP-IMP ALEKSANDER BERNARD CIUKSZA UL.LUBELSKA 36 ,
10-409 OLSZTYN, POLAND
Client Contact Person : Aleksander Bernard Ciuksza
IKEA Contacts Person : /
Sample Receive Date : 19/06/19
Date(s) of testing : /

Sample information by applicant:

Article No. : /
Article Name : drawer slide , length from L-250mm to L-600mm. (the same coating applies
on drawer slide L=350mm and L=400mm)
Article Date Stamp : /
Material Producer : Haining Yushun Powder coating Co.,LTD
Material Description : /
Material Batch Number/Production Date : 15/06/19
Test Type : Verifying Test
Identification Code : 6310/9104
Substrate : steel strip colled rold
How, where and when the sample was taken : the producer of slides, took the sample from the production line
produced for the P.H.ALL EXP-IMP Aleksander Bernard Ciuksza ,
the date 15/06/19.
Sample Description : drawer slides (powder coating) – the paint coating tested is identical on all
slide samples;
Additional Information : /



Information By Lab : /

Test Method:	Rating
1.Cadmium(Cd) Content acc. to IOS-MAT-0054	Pass
2.EN71-3: General elements, Cr-III & Cr-VI and Total migratable Organotin acc. to IOS-MAT-0054	Pass
3.Lead(Pb) Content acc. to IOS-MAT-0066	Pass
4.Bisphenol A, S and F migration acc. to IOS-MAT-0054	Pass
5.Pthalates acc. to IOS-MAT-0054	Pass
6.Di-organotin and Tri-organotin Compounds in Powder Coating acc. to IOS-MAT-0066	Pass
7.Gauge meter; IOS-MAT-0066/ISO2178/ISO2360	/
8.Dip test for coated surface, 1hr; IOS-MAT-0066/ISO8442-1/2.	Pass

Remark:

"No Conclusion": combined with the expanded uncertainty, unable to rate the result due to the result both in and out of the limit.

"-": unable to rate the result due to no limit offered or test result is N.A. / N.T. /N.R.*

*For further details, pls refer to the following page(s).

Mindy Pan
ITTC Deputy General Manager

Jenny Liu
Lab Manager
Approved Signatory

Tessa Qian
Lab Manager
Approved Signatory

*The test results exclusively relate to the samples under test sent by customer.
The test report shall not be reproduced except in full, without the written approval of our laboratory.
The test report is not to prove to the society, as well as import & export commodity inspection in China.*

1. Determination of Cadmium (Cd) Content

(A) Test Result Summary (For IKEA Specification IOS-MAT-0054: AA-92520-11)

Testing Item	Result, mg/Kg	IKEA Limit, mg/Kg
Cd	< 5	40

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Cd	Total Digestion Method and Determined by ICP

2. EN71-3: General elements, Cr-III & Cr-VI and Total migratable Organotin acc. to IOS-MAT-0054

(A) Test Result Summary (For IKEA Specification IOS-MAT-0054: AA-92520-11)

-	Result, mg/kg	Requirement, mg/kg
Category	III	III
Element	-	-
Boron (B)	< 1500	15000
Aluminium (Al)	< 7000	70000
Chromium III (Cr III)	< 46	460
Chromium VI (Cr VI)	< 0.050	0.053
Manganese (Mn)	< 1500	15000
Cobalt (Co)	< 13	130
Nickel (Ni)	< 93	930
Copper (Cu)	< 770	7700
Zinc (Zn)	< 4600	46000
Arsenic (As)	< 4.7	47
Selenium (Se)	< 46	460
Strontium (Sr)	< 5600	56000
Cadmium (Cd)	< 1.7	17
Tin (Sn)	< 18000	180000
Organic tin	< 6#	12
Antimony (Sb)	< 56	560
Barium (Ba)	< 1875	18750
Mercury(Hg)	< 9.4	94
Lead(Pb)	< 2.3	23

Remark:

(a) "<" denotes "less than"

(b) # Result of organic tin was calculated by the soluble tin content

(B) Test Method

Testing Item	Testing Method
Elements	With reference to EN 71-3: 2019

3. Determination of Lead (Pb) Content

(A) Test Result Summary (For IKEA Specification IOS-MAT-0066: AA-163938-11)

Testing Item	Result, mg/Kg	IKEA Limit, mg/Kg
Pb	< 5	90

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Pb	With Reference to CPSC-CH-E1003-09.1 & 16 CFR Part 1303: 2018

4. Determination of Bisphenol A, S and F Migration

(A) Test Result Summary (For IKEA Specification IOS-MAT-0054: AA-92520-11)

Testing Item	CAS Number	Result, mg/L	IKEA Limit, mg/L
Bisphenol A	80-05-7	<0.02	0.1
Bisphenol S	80-09-1	<0.02	0.1
Bisphenol F	620-92-8	<0.02	0.1

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Bisphenol A, S, F	With reference to SS-EN 14372:2004

5. Determination of Phthalates

(A) Test Result Summary (For IKEA Specification IOS-MAT-0054: AA-92520-11)

Testing Item	CAS Number	Result, mg/kg	IKEA Limit, mg/kg
Bis-2-ethylhexyl Phthalate(DEHP)	117-81-7	< 25	100
Di-n-octyl Phthalate(DNOP)	117-84-0	< 25	100
Benzyl Butyl Phthalate(BBP)	85-68-7	< 25	100
Diisobutyl Phthalate(DIBP)	84-69-5	< 25	100
Diisoheptyl phthalate (DIHP)	71888-89-6	< 50	100
Bis(2-methoxyethyl) phthalate(BMEP)	117-82-8	< 25	100
Dihexyl phthalate (DHP)	84-75-3	< 25	100

Testing Item	CAS Number	Result, mg/kg	IKEA Limit, mg/kg
Diisononyl Phthalate(DINP)	28553-12-0 68515-48-0	< 50	100
Di-n-butyl Phthalate(DBP)	84-74-2	< 25	100
Diisodecyl Phthalate(DIDP)	26761-40-0 68515-49-1	< 50	100
Di(heptyl, nonyl, undecyl) phthalate(DHNUP)	68515-42-4	< 25	100
Diisopentyl phthalate (DIPP)	605-50-5	< 25	100
n-Pentyl-isopentylphthalate	776297-69-9	< 25	100
Dimethyl Phthalate (DMP)	131-11-3	< 25	100
Diethyl Phthalate (DEP)	84-66-2	< 25	100
Dipropyl Phthalate	131-16-8	< 25	100
Dipentyl Phthalate (DAP)	131-18-0	< 25	100
Dipentyl Phthalate ester branched and linear (DAP)	84777-06-0	< 25	100
Bis(4-methyl-2-pentyl) phthalate(BMPP)	146-50-9	< 25	100
Dicyclohexyl phthalate(DCP)	84-61-7	< 25	100
Bis(2-ethoxyethyl) phthalate(BEEP)	605-54-9	< 25	100
Dinonyl phthalate	84-76-4	< 25	100
Butyl Octyl phthalate	84-78-6	< 25	100
Hexyl-2-ethylhexyl phthalate (HEHP)	75673-16-4	< 25	100
Diphenyl phthalates	84-62-8	< 25	100
Dibenzyl phthalates	523-31-9	< 25	100
Bis(2-n-butoxyethyl) phthalate(BBEP)	117-83-9	< 25	100
Di-C7-9-alkyl(branched and linear) phthalate	68515-41-3	< 25	100
Di-C9-11-alkyl(branched and linear) phthalate	68515-43-5	< 25	100
Other phthalates	/	< 25	100
Sum of phthalates		< 50	250

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Phthalates	With reference to CPSC-CH-C1001-09.4 Extraction and GC-MS

6. Determination of Di-organotin and Tri-organotin Compounds in Powder Coating

(A) Test Result Summary (For IKEA Specification IOS-MAT-0066: AA-163938-11)

Testing Item	Result, mg/kg	IKEA Limit, mg/kg
Dibutyltin compounds (DBT)	0.3	/
Diocyltin compounds (DOT)	< 0.1	/
Dipropyltin compounds (DProT)	< 0.1	/

Testing Item	Result, mg/kg	IKEA Limit, mg/kg
Diphenyltin compounds (DPhT)	< 0.1	/
Tributyltin compounds (TBT)	< 0.1	/
Triphenyltin compounds (TPhT)	< 0.1	/
Tricyclohexyltin compounds (TCyT)	< 0.1	/
Sum of Tri-organotin	< 0.1	1
Sum of di- and tri-organotin	0.3	2.5

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Organotin	Extraction and GC-MS

7. Coating Thickness Gauge Meter Test

Reference standards and document:

ISO 2178: 2016 Non-magnetic coatings on magnetic substrates -- Measurement of coating thickness -Magnetic method

IOS-MAT-0066 AA-163938-11: 3.2.4

IOS-TM-0002 AA-14884-11: 18.2.5

The results from the coating thickness measurements are presented below.

CL

Sample No. or measuring points	Thickness (µm)
1	117.9
2	119.1
3	125.2
4	/
5	/
Minimum value	117.9

CR

Sample No. or measuring points	Thickness (µm)
1	82.5
2	105.8
3	108.3
4	/
5	/
Minimum value	82.5

Minimum coating thickness required (µm)	Symbol
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Minimum coating thickness required (μm)	Symbol
Powder coating /	*

DL

Sample No. or measuring points	Thickness (μm)
1	105.5
2	88.0
3	65.4
4	/
5	/
Minimum value	65.4

DR

Sample No. or measuring points	Thickness (μm)
1	93.0
2	109.8
3	93.5
4	/
5	/
Minimum value	93.0

Minimum coating thickness required (μm)	Symbol
Powder coating /	*

Comment/s:

No judgment.

The measuring point/s located within the red circle/s.



8. Dip test for coated surface 1 hour

Reference standards and document:

ISO 8442-2: 1997, Annex C: Test method for corrosion resistance of unplated steel cutlery

IOS-MAT-0066 AA-163938-11: 3.2.3

IOS-TM-0002 AA-14884-11: 18.2.3



The results from dip test are presented below.

CL

Requirements	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
No corrosion or oxidation allowed on coated non-scratched surface	OK	OK	OK	/	/
No spread of corrosion allowed on coated scratched surface	OK	OK	OK	/	/

CR

Requirements	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
No corrosion or oxidation allowed on coated non-scratched surface	OK	OK	OK	/	/
No spread of corrosion allowed on coated scratched surface	OK	OK	OK	/	/

DL

Requirements	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
No corrosion or oxidation allowed on coated non-scratched surface	OK	OK	OK	/	/
No spread of corrosion allowed on coated scratched surface	OK	OK	OK	/	/

DR

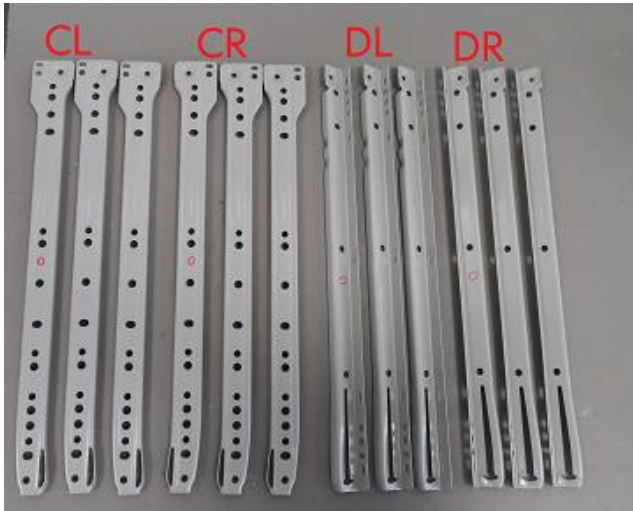
Requirements	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
No corrosion or oxidation allowed on coated non-scratched surface	OK	OK	OK	/	/
No spread of corrosion allowed on coated scratched surface	OK	OK	OK	/	/

Test duration	Symbol
1 hour	+*

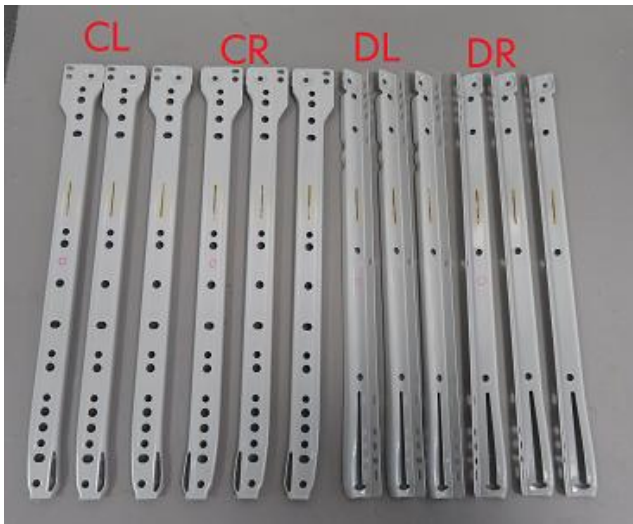
Comment/s:

OK= assessed as compliant

Untested sample



Tested sample



Performed test results applies only to the tested sample/s

Following symbols are used in the report:

- + Conforms to requirement
- +* Conforms to requirement, see comment/s
- Does not conform to requirement, see comment/s, if any
- * See comment/s
- N.T. Test not performed, see comment/s
- N.A. Test not applicable to tested object

-----End of Report-----