

## Test Report

Test Report No.:26987955

Issue Date:17/12/18(DD/MM/YY)

### Client Information:

Supplier No. : S1797  
Client Company Name : RIF Ametist  
Contact Address : 140730,Russian Federation,Moscow region,Roshal,2-y Pyatiletki st.  
Client Contact Person : Medvedeva Olesya  
IKEA Contacts Person : Alexey Afanasiev  
Sample Receive Date/Test Start Date : 07/12/18

### Sample information by applicant:

Article No. : /  
Article Name : /  
Article Date Stamp : /  
Material Producer : RIF Ametist  
Material Description : polyurethane foam grade HR3530  
Material Batch Number/Production Date : 3009/13.10.18  
Test Type : Verifying Test  
Identification Code : /  
Sample Description : /  
Additional Information : /



Information By Lab : foam

### Test Method:

- 1.Lead(Pb) Content acc. to IOS-MAT-0054
- 2.Certain Elements Migration according to EN71-3, General Elements and Cr-III & Cr-VI, IOS-MAT-0054
- 3.Total Migratable Organotin according to EN71-3, IOS-MAT-0054
- 4.TDA -measurements in Polyurethane Foam acc. to IOS-MAT-0010
- 5.Organotin Compounds acc. to IOS-MAT-0010
- 6.Pthalates acc. to IOS-MAT-0010
- 7.Organotin Compounds acc. to IOS-MAT-0054
- 8.Pthalates acc. to IOS-MAT-0054



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A handwritten signature in blue ink, reading "Mindy Pan". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

Mindy Pan  
ITTTC Deputy General Manager

*The test results exclusively relate to the samples under test.  
The test report shall not be reproduced except in full, without the written approval of our laboratory.*

## 1. Determination of Lead (Pb) Content

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

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

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Pb	With Reference to CPSC-CH-E1002-08.3

## 2. Certain Elements Migration according to EN71-3, General Elements and Cr-III & Cr-VI

(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)	< 0.1#	0.2
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
Antimony (Sb)	< 56	560
Barium (Ba)	< 1875	18750
Mercury(Hg)	< 9.4	94
Lead(Pb)	< 2.3	23

Remark:

(a) # First screen test total Cr. If total Cr more than 0.02 mg/kg in category I, 0.005 mg/kg in category II, or 0.1 mg/kg in category III, confirming test would perform by IC-ICP-MS or LC-ICP-MS(for Cr VI)

(b) "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Elements	With reference to EN 71-3: 2013+A3: 2018

### 3. Total Migratable Organotin according to EN71-3

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

-	Result, mg/kg	Requirement, mg/kg
Category	III	III
Element	-	-
Organic tin	< 6 <sup>#</sup>	12

Remark:

(a) "<" denotes "less than"

(b) # Confirmation of Organic Tin was performed on the tested component

(B) Test Method

Testing Item	Testing Method
Elements	With reference to EN 71-3: 2013+A3: 2018

### 4. Determination of 2,4-Toluene-diamine(2,4-TDA) & 2,6-Toluene-diamine(2,6-TDA)

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-14)

Testing Item	CAS Number	Result, mg/kg	IKEA limit, mg/kg
2,4-TDA	95-80-7	1.0	5.0
2,6-TDA	823-40-5	1.2	5.0

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
2,4-TDA and 2,6-TDA	With reference to Europur method

### 5. Determination of Organotin Compounds

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-14)

Testing Item	Result, mg/kg	IKEA Limit, mg/kg
Monobutyltin compounds (MBT)	< 0.05	/
Dibutyltin compounds (DBT)	< 0.05	0.2
Tributyltin compounds (TBT)	< 0.05	0.2
Monooctyltin compounds (MOT)	< 0.05	/
Tetrabutyltin compounds (TeBT)	< 0.05	/
Diocyltin compounds (DOT)	< 0.05	/
Triphenyltin compounds (TPHT)	< 0.05	/

Testing Item	Result, mg/kg	IKEA Limit, mg/kg
Tricyclohexyltin compounds (TCyT)	< 0.05	/
Dipropyltin compounds (DProT)	< 0.05	/
Diphenyltin compounds (DPHT)	< 0.05	/
Sum of Organotin compounds	< 0.05	2.5

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Organotin compounds	With reference to ISO/TS 16179: 2012

6. Determination of Phthalates

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-14)

Testing Item	CAS Number	Result, mg/kg	IKEA Limit, mg/kg
Di-2-ethylhexyl Phthalate(DEHP)	117-81-7	< 25	100
Di-n-octyl Phthalate(DNOP)	117-84-0	< 25	100
Diisononyl Phthalate(DINP)	28553-12-0 68515-48-0	< 50	100
Dibutyl Phthalate(DBP)	84-74-2	< 25	100
Dipentyl phthalate (DAP)	131-18-0	< 25	100
Diisodecyl Phthalate(DIDP)	26761-40-0 68515-49-1	< 50	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
Dicyclohexyl phthalate (DCP)	84-61-7	< 25	100
Dimethoxyethyl phthalate(DMEP)	117-82-8	< 25	100
Dihexyl phthalate (DHP)	84-75-3	< 25	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
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl doesters with 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	< 25	100
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	< 25	100
dipentyl phthalate ester, branched and linear	84777-06-0	< 25	100

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Phthalates	With reference to ISO 8124-6: 2014

## 7. Determination of Organotin Compounds

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

Testing Item	Result, mg/kg	IKEA Limit, mg/kg
Monobutyltin compounds (MBT)	< 0.05	/
Dibutyltin compounds (DBT)	< 0.05	see remark (b)
Tributyltin compounds (TBT)	< 0.05	see remark (b)
Monooctyltin compounds (MOT)	< 0.05	/
Tetrabutyltin compounds (TeBT)	< 0.05	/
Diocyltin compounds (DOT)	< 0.05	/
Triphenyltin compounds (TPhT)	< 0.05	/
Tricyclohexyltin compounds (TCyT)	< 0.05	/
Dipropyltin compounds (DProT)	< 0.05	/
Diphenyltin compounds (DPhT)	< 0.05	/
Sum of Organotin compounds	< 0.05	2.5

Remark:

(a) "<" denotes "less than"

(b) For coverings and organic coatings, limit of DBT and TBT is 0.2 mg/kg each.

For textiles, polymerics (including plastics, silicone and rubber/latex/elastomers) and PU foam, limit of DBT and TBT is 0.1 mg/kg each.

(B) Test Method

Testing Item	Testing Method
Organotin	Extraction and GC-MS

## 8. 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
Diisononyl Phthalate(DINP)	28553-12-0	< 50	100

Testing Item	CAS Number	Result, mg/kg	IKEA Limit, mg/kg
	68515-48-0		
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

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