

Test Report

Test Report No.: 26853302

Issue Date: 25/10/16(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 : Andrey Yurchenko
Sample Receive Date/Test Start Date: 17/10/16

Sample information by applicant:

Article No. : /
Article Name : /
Article Date Stamp : /
Material Producer : RIF Ametist
Material Description : Polyurethane foam grade ST 3542
Material Batch Number/Production Date: 3483/31.08.16
Test type : Verifying Test



Information By Lab : white foam

Test Method:

Lead(Pb) Content acc. to IOS-MAT-0054
Migration of certain elements - EN 71-3, acc. to IOS-MAT-0054
MDA-measurements in Polyurethane Foam acc. to IOS-MAT-0010
TDA -measurements in Polyurethane Foam acc. to IOS-MAT-0010
Organotin compound acc. to IOS-MAT-0010
Phthalates acc. to IOS-MAT-0010
Organotin compounds acc. to IOS-MAT-0054
Phthalates acc. to IOS-MAT-0054



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A blue ink handwritten signature, likely belonging to Tony Watson, is written over a light blue horizontal line.

Tony Watson
ITTC 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.

Determination of Lead (Pb) Content

(A) Test Result Summary (For IKEA Specification IOS-MAT-0054: AA-92520-9)

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

Migration of Certain Elements

(A) Test Result Summary (For IKEA Specification IOS-MAT-0054: AA-92520-9)

-	Result, mg/kg	Requirement, mg/kg
Category	III	III
Element	-	-
Boron (B)	< 1500	15000
Aluminium (Al)	< 7000	70000
Total Cr	< 0.2	-
Chromium III (Cr III)	NA#	460
Chromium VI (Cr VI)	NA#	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
Organic tin	< 6	12
Antimony (Sb)	< 56	560
Barium (Ba)	< 1875	18750
Mercury(Hg)	< 9.4	94
Lead(Pb)	< 16	160

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 0.2 mg/kg in category III, confirming test would perform by LC-ICP-MS(for Cr VI)
- (b) "<" denotes "less than"
- (c) NA = Not Applicable

(B) Test Method

Testing Item	Testing Method
Elements	With reference to EN 71-3: 2013+A1:2014

Determination of 4,4'-Diaminodiphenylmethane(4,4'-MDA) , 2,2'-MDA and 2,4'-MDA

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-13)

Testing Item	CAS No.	Test Results, mg/kg	IKEA Limits, mg/kg
4,4'-MDA	101-77-9	< 1.0	5
2,2'-MDA	6582-52-1	< 1.0	5
2,4'-MDA	1208-52-2	< 1.0	5

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
4,4'-MDA, 2,2'-MDA and 2,4'-MDA	Extraction with 0,1% acetic acid followed by derivatization with pentafluoropropionic acid anhydride (PFPA) and LC or GC-MS analysis, as described in Analytica Chimica Acta 510 (2004) 109-11

Determination of 2,4-Toluenediamine(2,4-TDA) & 2,6-TDA

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-13)

Testing Item	CAS No.	Test Results, mg/kg	IKEA Limits, mg/kg
2,4-TDA	95-80-7	< 1.0	5
2,6-TDA	823-40-5	< 1.0	5

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
2,4-TDA and 2,6-TDA	Extraction with 0,1% acetic acid followed by derivatization with pentafluoropropionic acid anhydride (PFPA) and LC or GC-MS analysis, as described in Analytica Chimica Acta 510 (2004) 109-11

Determination of Organotin compounds

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-13)

Testing Item	Test Results, mg/kg	IKEA Limits, 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	/
Diocetyl tin compounds (DOT)	< 0.05	/
Triphenyltin compounds (TPhT)	< 0.05	/
Tricyclohexyltin compounds (TCyT)	< 0.05	/
Monomethyltin compounds (MeT)	< 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	Extraction and GC-MS

Determination of Phthalates

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-13)

Testing Item	CAS No.	Test Results, mg/kg	IKEA Limits, 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	< 100	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	< 100	100
Benzyl Butyl Phthalate(BBP)	85-68-7	< 25	100
Diisobutyl Phthalate(DIBP)	84-69-5	< 25	100
Diisoheptyl phthalate (DIHP)	71888-89-6	< 100	100
Dimethoxyethyl phthalate(DMEP)	117-82-8	< 25	100
Dihexyl phthalate (DnHP)	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
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	< 25	100

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Phthalates	Extraction and GC-MS

Determination of Organotin compounds

(A) Test Result Summary (For IKEA Specification IOS-MAT-0054: AA-92520-9)

Testing Item	Test Results, mg/kg	IKEA Limits, mg/kg
Monobutyltin compounds (MBT)	< 0.05	/
Dibutyltin compounds (DBT)	< 0.05	0.1
Tributyltin compounds (TBT)	< 0.05	0.1
Monooctyltin compounds (MOT)	< 0.05	/
Tetrabutyltin compounds (TTBT)	< 0.05	/
Diocyltin compounds (DOT)	< 0.05	/
Triphenyltin compounds (TPhT)	< 0.05	/
Tricyclohexyltin compounds (TCyT)	< 0.05	/
Methyltin compounds (MeT)	< 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	Extraction and GC-MS

Determination of Phthalates

(A) Test Result Summary (For IKEA Specification IOS-MAT-0054:AA-92520-9)

Testing Item	CAS No.	Test Results, mg/kg	IKEA Limits, mg/kg
Bis(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	< 100	100
Di-n-butyl phthalate (DBP)	84-74-2	< 25	100
Diisodecyl phthalate (DIDP)	26761-40-0	< 100	100
Benzyl butyl phthalate (BBP)	85-68-7	< 25	100
Diisobutyl phthalate (DIBP)	84-69-5	< 25	100
Diisoheptyl phthalate (DIHP)	71888-89-6	<100	100
Bis(2-methoxyethyl) phthalate (BMEP)	117-82-8	< 25	100
Dihexyl phthalate (DHP)	84-75-3	< 25	100
Di(heptyl, nonyl, undecyl) phthalate (DHNUP)	68515-42-4	< 25	100
Bis(3-methylbutyl) 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
Diamyl 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 phthalate	84-62-8	< 25	100
Dibenzyl phthalate	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		< 100	250

Remark: "<" denotes "less than"

(B) Test Method

Testing Item	Testing Method
Phthalates	With reference to CPSC-CH-C1001-09.3 Extraction and GC-MS

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