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10.04.2017

**Report No.** 0003216689/210 AZ 264802

**Test item:** One PU foam

**Identification:** ST 3542

**Condition at delivery:** No claim

**Date of delivery:** 30.03.2017

**Place of testing:** Cologne

**Test period:** 04.04.2017 to 10.04.2017

**Test scope:** Parameters selected by customer

**Test specification:** IKEA IOS-MAT-0010 Vers. AA-10911-13 dated 2015-11-13

**Test result:** Pass - According to the kind and extent of tests performed the test item meets the test specification.

Cologne, 10.04.2017



Dipl.-Ing. Gunther Bier  
(Expert)



Petra Van Dyck  
(Expert)

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## 1. Results

### Organotin compounds

Sample No.	264802-002		
Sample composition	Art. 1		
Unit	mg/kg		
<b>Organotin compounds, total</b>	n.n.		
Monobutyltin, MBT	<0,005		
Dibutyltin, DBT	<0,005		
Tributyltin, TBT	<0,005		
Tetrabutyltin, TeBT	<0,005		
Monooctyltin, MOT	<0,005		
Diocetyl tin, DOT	<0,005		
Tricyclohexyltin, TcyT	<0,005		
Triphenyltin, TPhT	<0,005		
Di-n-propyl tin	<0,005		
Diphenyl tin	<0,005		

**Limit values:**

DBT and TBT 0,2 mg/kg each  
Sum of all organotin compounds 2,5 mg/kg

### Plasticizer

Sample No.	264802-003		
Sample composition	Art. 1		
Unit	mg/kg		
<b>Phthalates</b>			
Bis-(2-ethylhexyl)phthalate, DEHP	<50		
Dibutylphthalate, DBP	<50		
Benzylbutylphthalate, BBP	<50		
Diisononylphthalate, DINP	<50		
Diisodecylphthalate, DIDP	<50		
Di-n-octylphthalate, DNOP	<50		
Diisobutylphthalate, DIBP	<50		
Di-C6-8-branched phthalates, DIHP	<50		
Bis-(2-methoxyethyl) phthalate, BMEP	<50		
Di-n-hexyl phthalate, DNHP	<50		
Di-C7-11-branch. linear phthal. DHNUP	<50		
Diisopentylphthalate DiPP	<50		
Pentyl-iso-pentylphthalate, PiPP	<50		
Diisoheptyl phthalate	n.n.		
Dipentylphthalate, branched and linear	<50		
Di-n-pentylphthalate, DnPP	<50		
Dipentyl phthalate ester	<50		
Di-C6-C10-Phthalate-ester	n.n.		
Dicyclohexylphthalate, DCP	n.n.		

**Limit values:**

100 mg/kg for each phthalate

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**TDA and MDA**

Sample No.	264802-001		
Sample composition	Art. 1		
Unit	mg/kg		
<b>2,4-Toluyldiamine</b>	<1		
2,6-Toluyldiamine	<1		
2,2-Diaminodiphenylmethane	<1		
2,4-Diaminodiphenylmethane	<1		
4,4'-Diaminodiphenylmethane	<1		

Limit value 5 mg/kg per compound

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## 2. Summary of methods

<b>Organotin compounds</b>		
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**Method description:**

In-house method - Determination of organotin compounds after extraction with methanolic solvent and derivatisation. Quantification by GC-MS

**Notes:**

Quantification equates the DIN EN ISO 17353.

<b>Plasticizer</b>		
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**Method description:**

In-house method - Determination of selected phthalates after solvent extraction, quantification by GC-MS

**Notes:**

Quantification equates the DIN EN ISO 18856.

<b>TDA and MDA</b>		
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**Method description:**

Determination of TDA and MDA after extraction with 0,1% acetic acid, afterwards derivatization with pentafluoropropionic acid anhydride (PFPA) and quantification by LC-MS according to Analytica Chimica Acta 510 (2004) 109-119, deviation in sample preparation 0,4 g on 6 ml

---End of report---