

TÜV Rheinland LGA Products GmbH · 51101 Cologne
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10.04.2017

Report No. 0003216689/270 AZ 264804

Test item: One PU foam

Identification: S 3035

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.	264804-002		
Sample composition	Art. 1		
Unit	mg/kg		
Organotin compounds, total	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.	264804-003		
Sample composition	Art. 1		
Unit	mg/kg		
Phthalates			
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.	264804-001		
Sample composition	Art. 1		
Unit	mg/kg		
2,4-Toluyldiamine	<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

Organotin compounds		
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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.

Plasticizer		
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Method description: In-house method - Determination of selected phthalates after solvent extraction, quantification by GC-MS
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Notes: Quantification equates the DIN EN ISO 18856.

TDA and MDA		
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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
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----End of report----