

TÜV Rheinland LGA Products GmbH · 51105 Cologne  
RIF Ametist Ltd.  
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RUSSIAN FEDERATION

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Cologne,

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12.12.2018

Report No. 0003275899/90 AZ 328180

Test item: One foam

Identification: Material Producer: RIF Ametist  
Material Description: Polyurethane foam  
Material Identification: HR4026  
Batch No.: 3011, date of production 13.10.18

Condition at delivery: No claim

Date of delivery: 06.12.2018

Place of testing: Cologne

Test period: 06.12.2018 to 12.12.2018

Test scope: Parameters selected by customer

Test specification: IKEA IOS-MAT-0010 Vers. AA-10911-14 dated 2018-06-20

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

Cologne, 12.12.2018


X



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Sachverständige(r)/Expert  
Signiert von: Gunther Bier

X



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Sachverständige(r)/Expert  
Signiert von: Petra Van Dyck

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## 1. Results

### Organotin compounds

Sample No.	328180-002		
Sample composition	Art. 1		
Unit	mg/kg		
<b>Organotin compounds</b>			
Monobutyltin, MBT	<0,05		
Dibutyltin, DBT	<0,005		
Tributyltin, TBT	<0,005		
Tetrabutyltin, TeBT	<0,05		
Monooctyltin, MOT	<0,05		
Diocetyl tin, DOT	<0,05		
Tricyclohexyltin, TcyT	<0,05		
Triphenyltin, TPhT	<0,005		
Dipropyltin	<0,05		
Diphenyl tin	<0,05		
Sum of organotin compounds	n.n.		
Sum of tri-organotin compounds	n.n.		
Sum of di-/tri-organotin compounds	n.n.		

Limit values:

DBT and TBT 0,2 mg/kg each

Sum of all organotin compounds 2,5 mg/kg

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**Phthalates**

Sample No.	328180-003		
Sample composition	Art. 1		
Unit	mg/kg		
<b>Phthalates</b>			
Bis-(2-ethylhexyl)phthalate, DEHP	<50		
Benzylbutylphthalate, BBP	<50		
Diisodecylphthalate, DIDP	<50		
Diisononylphthalate, DINP	<50		
Dibutylphthalate, DBP	<50		
Di-n-hexyl phthalate, DNHP	<50		
1,2-Benzenedicarboxylic acid, di-C6 -8-branched alkyl esters, C7-rich, DIHP	<50		
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl ester, DHNUP	<50		
Diisohexyl phthalate	n.n.		
1,2-benzenedicarboxylic acid, dipentylester, branched and linear	<50		
n-Pentyl-isopentyl phthalate, PiPP	n.n.		
Di-n-pentylphthalate, DnPP	<50		
Diisopentylphthalate DiPP	<50		
Bis-(2-methoxyethyl) phthalate, BMEP	<50		
Dicyclohexylphthalate, DCHP	n.n.		
Diisobutylphthalate, DIBP	<50		
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	n.n.		
Di-n-octylphthalate, DNOP	<50		

n.n. not detectable

Limit value 100 mg/kg for each phthalate

**TDA and MDA**

Sample No.	328180-001		
Sample composition	Art. 1		
Unit	mg/kg		
<b>2,4-Toluyldiamine</b>	2		
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>	<b>Standard: ISO/TS 16179</b>	<b>Issue date: 01.08.12</b>
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Method description:  
Footwear - Critical substances potentially present in footwear and footwear components - Determination of organotin compounds in footwear materials.

<b>Phthalates</b>	<b>Standard: ISO/DIS 8124-6</b>	<b>Issue date: 01.06.17</b>
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Method description:  
Safety of toys - Part 6: Certain phthalate esters in toys and children's products, method C

<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

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