

TÜV Rheinland LGA Products GmbH · 51105 Cologne
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RUSSIAN FEDERATION

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12.12.2018

Report No. 0003275899/60 AZ 328179

Test item: One foam

Identification: Material Producer: RIF Ametist
Material Description: Polyurethane foam
Material Identification: HR3030
Batch No.: 1189, date of production 13.04.18

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



Sachverständige(r)/Expert
Signiert von: Gunther Bier

X



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

Report No.: 0003275899/60 AZ 328179
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1. Results

Organotin compounds

| Sample No. | 328179-002 | | |
|------------------------------------|------------|--|--|
| Sample composition | Art. 1 | | |
| Unit | mg/kg | | |
| Organotin compounds | | | |
| 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. | 328179-003 | | |
|---|------------|--|--|
| Sample composition | Art. 1 | | |
| Unit | mg/kg | | |
| Phthalates | | | |
| 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. | 328179-001 | | |
|-----------------------------|------------|--|--|
| 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 | Standard: ISO/TS 16179 | Issue date: 01.08.12 |
|----------------------------|-------------------------------|-----------------------------|

Method description:
Footwear - Critical substances potentially present in footwear and footwear components - Determination of organotin compounds in footwear materials.

| | | |
|-------------------|---------------------------------|-----------------------------|
| Phthalates | Standard: ISO/DIS 8124-6 | Issue date: 01.06.17 |
|-------------------|---------------------------------|-----------------------------|

Method description:
Safety of toys - Part 6: Certain phthalate esters in toys and children's products, method C

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| TDA and MDA | | |
|--------------------|--|--|

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----