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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)

Report No.: 0003216689/270 AZ 264804
Date: 10.04.2017

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

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| 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 |
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| Notes: Quantification equates the DIN EN ISO 17353. |
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| 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. |
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| 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----