



TÜV Rheinland LGA Products GmbH · 51101 Cologne

Interfoam-SPb Ltd.
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RUSSIAN FEDERATION

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04.11.2010

Report No. AZ 76646

Test item: Four samples of foam
Producer: Interfoam-SPb Ltd.

Identification:
1) HS 2520, Lot: # 09/21, Date of production: 09.09.2010
2) ST 2236, Lot: # 09/76, Date of production: 29.09.2010
3) ST 2536, Lot: # 09/81, Date of production: 30.09.2010
4) ST 3040, Lot: # 10/02, Date of production: 01.10.2010

Condition at delivery: No claim

Date of delivery: 27.10.2010

Place of testing: Cologne


Test period: 27.10.2010 to 04.11.2010


Test scope: Parameters selected by customer

Test specification: IKEA IOS-MAT-0010 Vers. AA-10911-9 dated 2009-10-09
IKEA IOS-MAT-0054 Vers. AA-92520-5 dated 2009-10-09

Test result: Pass - According to the kind and extent of tests performed the test items meet the test specification

Cologne, 04.11.2010

i.A. 
Dipl.-Ing. Margot Prasse
(Reviewing Expert)

i.A. 
Petra Van Dyck
(Expert)

The test results exclusively refer to the samples examined.

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Test Report-No.: AZ 76646
Date: 04.11.2010

1. Results

Metals, total plastics

Sample No.	76646-1	76646-2	76646-3
Sample composition	HS 2520, Lot: # 09/21, Date of production: 09.09.2010	ST 2236, Lot: # 09/76, Date of production: 29.09.2010	ST 2536, Lot: # 09/81, Date of production: 30.09.2010
Unit	mg/kg	mg/kg	mg/kg
Cadmium	<5	<5	<5
Lead	<10	<10	<10
Sample No.	76646-4		
Sample composition	ST 3040, Lot: # 10/02, Date of production: 01.10.2010		
Unit	mg/kg		
Cadmium	<5		
Lead	<10		



Test Report-No.: AZ 76646
Date: 04.11.2010

Organotin compounds

Sample No.	76646-1	76646-2	76646-3
Sample composition	HS 2520, Lot: # 09/21, Date of production: 09.09.2010	ST 2236, Lot: # 09/76, Date of production: 29.09.2010	ST 2536, Lot: # 09/81, Date of production: 30.09.2010
Unit	mg/kg	mg/kg	mg/kg
Organotin compounds			
Monobutyltin, MBT	0,020	0,009	<0,005
Dibutyltin, DBT	<0,005	<0,005	<0,005
Tributyltin, TBT	<0,005	<0,005	<0,005
Tetrabutyltin, TeBT	<0,005	<0,005	<0,005
Monooctyltin, MOT	<0,005	<0,005	<0,005
Diocetyl tin, DOT	<0,005	<0,005	<0,005
Tricyclohexyltin, TcyT	<0,005	<0,005	<0,005
Triphenyltin, TPhT	<0,005	<0,005	<0,005
Sample No.	76646-4		
Sample composition	ST 3040, Lot: # 10/02, Date of production: 01.10.2010		
Unit	mg/kg		
Organotin compounds			
Monobutyltin, MBT	0,010		
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		



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Plasticizer

Sample No.	76646-1	76646-2	76646-3
Sample composition	HS 2520, Lot: # 09/21, Date of production: 09.09.2010	ST 2236, Lot: # 09/76, Date of production: 29.09.2010	ST 2536, Lot: # 09/81, Date of production: 30.09.2010
Unit	mg/kg	mg/kg	mg/kg
Phthalates			
Bis-(2-ethylhexyl)phthalate, DEHP	<15	<15	<15
Dibutylphthalate, DBP	<15	<15	<15
Benzylbutylphthalate, BBP	<15	<15	<15
Diisononylphthalate, DINP	<15	<15	<15
Diisodecylphthalate, DIDP	<15	<15	<15
Di-n-octylphthalate, DNOP	<15	<15	<15
Diisobutylphthalate, DIBP	<15	<15	<15
Sample No.	76646-4		
Sample composition	ST 3040, Lot: # 10/02, Date of production: 01.10.2010		
Unit	mg/kg		
Phthalates			
Bis-(2-ethylhexyl)phthalate, DEHP	<15		
Dibutylphthalate, DBP	<15		
Benzylbutylphthalate, BBP	<15		
Diisononylphthalate, DINP	<15		
Diisodecylphthalate, DIDP	<15		
Di-n-octylphthalate, DNOP	<15		
Diisobutylphthalate, DIBP	<15		



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Plasticizer

Sample No.	76646-1	76646-2	76646-3
Sample composition	HS 2520, Lot: # 09/21, Date of production: 09.09.2010	ST 2236, Lot: # 09/76, Date of production: 29.09.2010	ST 2536, Lot: # 09/81, Date of production: 30.09.2010
Unit	mg/kg	mg/kg	mg/kg
Phtalates, extended			
Bis-(2-ethylhexyl)phthalate, DEHP	<50	<50	<50
Dibutylphthalate, DBP	<50	<50	<50
Benzylbutylphthalate, BBP	<50	<50	<50
Diisononylphthalate, DINP	<50	<50	<50
Diisodecylphthalate, DIDP	<50	<50	<50
Di-n-octylphthalate, DNOP	<50	<50	<50
Diisobutylphthalate, DIBP	<50	<50	<50
Dimethylphthalate, DMP	<50	<50	<50
Diethylphthalate, DEP	<50	<50	<50
Dipropyl phthalate	<50	<50	<50
Diamylphthalate, DAP	<50	<50	<50
Dipentyl phthalate ester	<50	<50	<50
Diisopentylphthalate	<50	<50	<50
Bis(4-methyl-2-pentyl)phthalate, BMPP	<50	<50	<50
Di-n-hexyl phthalate, DHP	<50	<50	<50
Dicyclohexylphthalate, DCP	<50	<50	<50
Bis(2-ethoxyethyl)phthalate, BEEP	<50	<50	<50
Dinonylphthalate, DnNP	<50	<50	<50
Butyloctylphthalate	<50	<50	<50
Hexyl-2-ethylhexylphthalate, HEHP	<50	<50	<50
Diphenylphthalate	<50	<50	<50
Dibenzylphthalate	<50	<50	<50
Dimethylglycolphthalate, BMEP	<50	<50	<50
Bis(2-n-butoxyethyl)phthalate, BBEP	<50	<50	<50
Di-C6-8-branched alkyl ester*	n.n.	n.n.	n.n.
Di-C7-9-branched alkyl ester*	n.n.	n.n.	n.n.
Di-C9-11-branched alkyl ester*	n.n.	n.n.	n.n.
Di-C7-11-branched alkyl ester*	n.n.	n.n.	n.n.



Test Report-No.: AZ 76646

Date: 04.11.2010

Sample No.	76646-4		
Sample composition	ST 3040, Lot: # 10/02, Date of production: 01.10.2010		
Unit	mg/kg		
Phtalates, extended			
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		
Dimethylphthalate, DMP	<50		
Diethylphthalate, DEP	<50		
Dipropyl phthalate	<50		
Diamylphthalate, DAP	<50		
Dipentyl phthalate ester	<50		
Diisopentylphthalate	<50		
Bis(4-methyl-2-pentyl)phthalate, BMPP	<50		
Di-n-hexyl phthalate, DHP	<50		
Dicyclohexylphthalate, DCP	<50		
Bis(2-ethoxyethyl)phthalate, BEEP	<50		
Dinonylphthalate, DnNP	<50		
Butyloctylphthalate	<50		
Hexyl-2-ethylhexylphthalate, HEHP	<50		
Diphenylphthalate	<50		
Dibenzylphthalate	<50		
Dimethylglycolphthalate, BMEP	<50		
Bis(2-n-butoxyethyl)phthalate, BBEP	<50		
Di-C6-8-branched alkyl ester*	n.n.		
Di-C7-9-branched alkyl ester*	n.n.		
Di-C9-11-branched alkyl ester*	n.n.		
Di-C7-11-branched alkyl ester*	n.n.		

n.n. not detectable



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TDA and MDA

Sample No.	76646-1	76646-2	76646-3
Sample composition	HS 2520, Lot: # 09/21, Date of production: 09.09.2010	ST 2236, Lot: # 09/76, Date of production: 29.09.2010	ST 2536, Lot: # 09/81, Date of production: 30.09.2010
Unit	mg/kg	mg/kg	mg/kg
2,4-Toluyldiamine	<1	1	1
4,4'-Diaminodiphenylmethane	<1	<1	<1
Sample No.	76646-4		
Sample composition	ST 3040, Lot: # 10/02, Date of production: 01.10.2010		
Unit	mg/kg		
2,4-Toluyldiamine	1		
4,4'-Diaminodiphenylmethane	<1		

----End of results----



Test Report-No.: AZ 76646
Date: 04.11.2010

2. Summary of methods

Metals, total plastics	Standard: DIN EN 1122	Issue date: 01.02.02
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Method description:

According to: plastics - determination of cadmium - decomposition by microwave HNO₃:H₂O₂

Notes:

Legal limit value for cadmium according to Ordinance on Banned Chemicals, Article 18, Annex to § 1 respectively Regulation (EC) No. 1907/2006 Annex XVII: 100 mg/kg.

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

Notes:

Quantification equates the DIN EN ISO 18856.

Plasticizer		
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Method description:

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

Notes:

*These and other unknown phthalates are calculated with DEHP (ion 149).

Quantification equates the DIN EN ISO 18856.

TDA and MDA		
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Method description:

Determination of TDA and MDA according to: Europur protocol for residual TDA in flexible PU-foam -
Determination of residual TDA in flexible PU-foam