

Hansecontrol Dongguan Consulting Services, Ltd. 2/F, Chi Dun, Chen Jia Pu
Village, Liaobu Town, Dongguan City, China 523400

Kania OHG
Mrs. Gerlinder Eigner
creative Taschenmode, Am Forst 16 b
D-92637 Weiden/Opf.
GERMANY

Report No.:

Last change:
Order No.:
Date of order:
Contact:
Direct dial:
E-Mail:
Date:

17217-1 DGN13

Belinda Liang
DGN-17313-13
22.09.13
Jacky Li
(+86) 769- 8239 9123 Ext:1805
jacky.l.li@hansecontrol.com.cn
25.09.2013

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Test-Report

Order descr.: Material test

Type of testing:	Chem.
Sample No.:	13-033636-01
Date of receipt:	22.09.2013
Designation:	Material for shopper
Colour:	Navy w.white print
Article-no.:	26281-HJ1
Material:	600D Polyester
Test end date:	25.09.2013

REPORT

Pass



Tom Zhang
Quality Manager

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Sample overview

No.	Components
1	Navy synthetic textile backing plastic with white print

Sample number	Designation	Sample type	Evaluation
13-033636-01	Material for shopper	Chem.	Pass
13-033636-01-01	Component 1	Chem.	Pass

Legend: Chem.: chemical tests, Phys.: physical tests

Evaluation:

13-033636 material for shopper

Comply with the requirements according to the scope of analysis.

13-033636-01_DSC_5473.JPG



Test results

13-033636-01	Material for shopper
600D Polyester	Chem.

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Test results

13-033636-01-01	Component 1
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REACH (SVHC 144 substances)

Parameter	Unit	Min	Max	Result	Eval.
Anthracene	%	0	0,1	<0,005	
Musk-Xylene	%	0	0,1	<0,005	
Dibutylphthalate(DBP)	%	0	0,1	<0,005	
4,4'-Methyldianiline	%	0	0,1	<0,005	
Benzylbutylphthalate(BBP)	%	0	0,1	<0,005	
Bis-(2-ethylhexyl)phthalate(DEHP)	%	0	0,1	0,017	
Chlorinated paraffins C10 - C13	%	0	0,1	<0,005	
Hexabromo-cyclododecane (HBCDD) and all major diastereoisomers	%	0	0,1	<0,005	
Triethyl arsenate	%	0	0,1	<0,005	
Diarsenic pentoxide	%	0	0,1	<0,005	
Diarsenic trioxide	%	0	0,1	<0,005	
Lead hydrogen arsenate	%	0	0,1	<0,005	
Cobalt dichloride	%	0	0,1	<0,005	
Bis(tributyltin) oxide	%	0	0,1	<0,005	
Sodium dichromate, dehydrate	%	0	0,1	<0,005	
Anthracene oil	%	0	0,1	<0,05	
Anthracene oil, anthracene paste, distr. lights	%	0	0,1	<0,05	
Anthracene oil, anthracene paste, anthracene fraction	%	0	0,1	<0,05	
Anthracene oil, anthracene-low	%	0	0,1	<0,05	
Anthracene oil, anthracene paste	%	0	0,1	<0,05	
Coal tar pitch, high temperature	%	0	0,1	<0,05	
2,4-Dinitrotoluene	%	0	0,1	<0,005	
Diisobutyl phthalate (DIBP)	%	0	0,1	<0,005	
Tris (2-chloroethyl)phosphate	%	0	0,1	<0,005	
Lead chromate	%	0	0,1	<0,01	

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Parameter	Unit	Min	Max	Result	Eval.
Trichloroethylene	%	0	0,1	<0,01	
Boric acid	%	0	0,1	<0,01	
Disodium tetraborate anhydrou	%	0	0,1	<0,01	
Tetraboron disodium heptaoxide hydrate	%	0	0,1	<0,01	
Sodium chromate	%	0	0,1	<0,01	
Potassium chromate	%	0	0,1	<0,01	
Ammonium dichromate	%	0	0,1	<0,01	
Potassium dichromate	%	0	0,1	<0,01	
Cobalt sulfate	%	0	0,1	<0,01	
Cobalt dinitrate	%	0	0,1	<0,01	
Cobalt carbonate	%	0	0,1	<0,01	
Cobalt diacetate	%	0	0,1	<0,01	
2-Methoxyethanol	%	0	0,1	<0,01	
2-Ethoxyethanol	%	0	0,1	<0,01	
Chromium trioxide	%	0	0,1	<0,01	
Chromic acid, Dichromic acid	%	0	0,1	<0,01	
2-Ethoxyethyl acetate	%	0	0,1	<0,01	
Strontium chromate	%	0	0,1	<0,01	
Benzenedicarboxylicacid, di-C7-11-branched and linearalkyl esters	%	0	0,1	<0,01	
Hydrazine	%	0	0,1	<0,01	
1-methyl-2-pyrrolidone	%	0	0,1	<0,01	
1,2,3-trichloropropane	%	0	0,1	<0,01	
Benzenedicarboxylicacid, di-C6-8-branched alkyl esters, C7-rich	%	0	0,1	<0,01	
Lead dipicrate	%	0	0,1	<0,01	
Lead styphnate	%	0	0,1	<0,01	
Lead diazide	%	0	0,1	<0,01	
Phenolphthalein	%	0	0,1	<0,01	
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	%	0	0,1	<0,01	
N,N-dimethylacetamide (DMAC)	%	0	0,1	<0,01	
Trilead diarsenate	%	0	0,1	<0,01	
Calcium arsenate	%	0	0,1	<0,01	
Arsenic acid	%	0	0,1	<0,01	
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	%	0	0,1	<0,01	
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	%	0	0,1	<0,01	
Acrylamide	%	0	0,1	<0,01	

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Parameter	Unit	Min	Max	Result	Eval.
Bis(2-methoxyethyl) ether	%	0	0,1	<0,01	
1,2-Dichloroethane	%	0	0,1	<0,01	
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	%	0	0,1	<0,01	
2-Methoxyaniline o-Anisidine	%	0	0,1	<0,01	
Bis(2-methoxyethyl) phthalate	%	0	0,1	<0,01	
4'4-Diaminodiphenylmethane (MDA)	%	0	0,1	<0,01	
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	%	0	0,1	<0,01	
Aluminosilicate Refractory Ceramic Fibres (RCF)	%	0	0,1	<0,01	
Pentazinc chromate octahydroxide	%	0	0,1	<0,01	
Potassium hydroxyoctaoxidizincatedichromate	%	0	0,1	<0,01	
Dichromium tris(chromate)	%	0	0,1	<0,01	
1'2-bis(2-methoxyethoxy) ethane (TEGDME;triglyme)	%	0	0,1	<0,01	
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	%	0	0,1	<0,01	
Diboron trioxide	%	0	0,1	<0,01	
Formamide	%	0	0,1	<0,01	
Lead(II) bis(methanesulfonate)	%	0	0,1	<0,01	
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	%	0	0,1	<0,01	
4,4'-bis(dimethylamino)benzophen- one (Michler s ketone)	%	0	0,1	<0,01	
N' N' N' N'-tetramethyl-4,4'-methylenedi , aniline (Michler s base)	%	0	0,1	<0,01	
4,4'-bis(dimethylamino)-4''-(methylamin o)trityl alcohol	%	0	0,1	<0,01	
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	%	0	0,1	<0,01	
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4, 6-(1 H,3H,5H)-trione (8-TGIC)	%	0	0,1	<0,01	
4-methyl-m-phenylenediamine (2,4-toluene-diamine)	%	0	0,1	<0,01	
Pentalead tetraoxide sulphate	%	0	0,1	<0,01	
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	%	0	0,1	<0,01	
[4[[4-anilino-1-naphthyl][4-(dimethylam ino)phenyl] methylene]cyclohexa-2,5-dien-1-yliden e] dimethylammonium chloride (C.I. Basic Blue 26)	%	0	0,1	<0,01	
a,a-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene -1-methanol (C.I. Solvent Blue 4)	%	0	0,1	<0,01	
N-methylacetamide	%	0	0,1	<0,01	
Biphenyl-4-ylamine	%	0	0,1	<0,01	
Dinoseb	%	0	0,1	<0,01	

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Parameter	Unit	Min	Max	Result	Eval.
Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	%	0	0,1	<0,01	
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	%	0	0,1	<0,01	
Dioxobis(stearato)trilead	%	0	0,1	<0,01	
Lead dinitrate	%	0	0,1	<0,01	
Tetralead trioxide sulphate	%	0	0,1	<0,01	
Lead oxide (lead monoxide)	%	0	0,1	<0,01	
Lead titanium trioxide	%	0	0,1	<0,01	
4,4'-methylenedi-o-toluidine	%	0	0,1	<0,01	
Acetic acid, lead salt, basic	%	0	0,1	<0,01	
Dimethyl sulphate	%	0	0,1	<0,01	
Furan	%	0	0,1	<0,01	
Pyrochlore, antimony lead yellow	%	0	0,1	<0,01	
Tetraethyllead	%	0	0,1	<0,01	
Dibasic lead phthalate(phthalate(2-dioxotrilead))	%	0	0,1	<0,01	
Diethyl sulphate	%	0	0,1	<0,01	
Lead cyanamate	%	0	0,1	<0,01	
Silicic acid, barium salt, lead-doped	%	0	0,1	<0,01	
Trilead dioxide phosphonate	%	0	0,1	<0,01	
o-Toluidine; 2-Aminotoluene	%	0	0,1	<0,01	
o-aminoazotoluene	%	0	0,1	<0,01	
4-Aminoazobenzene; 4-Phenylazoaniline	%	0	0,1	<0,01	
6-methoxy-m-toluidine (p-cresidine)	%	0	0,1	<0,01	
Dibutyltin dichloride(DBT)	%	0	0,1	<0,01	
Lead Titanium Zirconium Oxide	%	0	0,1	<0,01	
Propylene oxide; 1,2-epoxypropane; methyloxirane	%	0	0,1	<0,01	
1-bromopropane	%	0	0,1	<0,01	
Basic lead carbonate (trilead bis(carbonate)dihydroxide)	%	0	0,1	<0,01	
Fatty acids, C16-18, lead salts	%	0	0,1	<0,01	
Lead tetroxide (orange lead)	%	0	0,1	<0,01	
Sulfurous acid, lead salt,	%	0	0,1	<0,01	
4,4'-oxydianiline and its salts	%	0	0,1	<0,01	
Basic lead sulphate (lead oxide sulphate)	%	0	0,1	<0,01	
Lead bis(tetrafluoroborate)	%	0	0,1	<0,01	
Silicic acid, lead salt	%	0	0,1	<0,01	
Bis(pentabromophenyl) ether (DecaBDE)	%	0	0,1	<0,01	

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Parameter	Unit	Min	Max	Result	Eval.
Phenol, 4-nonyl-, branched and linear covering all individual isomers with an alkyl chain of carbon number 9 and UVCB substances which include linear and branched alkyl chains with a carbon number of 9 Diazene-1,2-dicarboxamide	%	0	0,1	<0,01	
1,2-Diethoxyethane	%	0	0,1	<0,01	
Hexahydromethylphthalic anhydride	%	0	0,1	<0,01	
Hexahydro-4-methylphthalic anhydride	%	0	0,1	<0,01	
Hexahydro-1-methylphthalic anhydride	%	0	0,1	<0,01	
Hexahydro-3-methylphthalic anhydride	%	0	0,1	<0,01	
Cyclohexane-1,2-dicarboxylic anhydride	%	0	0,1	<0,01	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	%	0	0,1	<0,01	
N-pentyl-isopentylphthalate	%	0	0,1	<0,01	
Heptacosafuorotetradecanoic acid	%	0	0,1	<0,01	
Pentacosafuorotridecanoic acid	%	0	0,1	<0,01	
Henicosafuoroundecanoic acid	%	0	0,1	<0,01	
Tricosafuorododecanoic acid	%	0	0,1	<0,01	
Methoxy acetic acid	%	0	0,1	<0,01	
Diisopentylphthalate	%	0	0,1	<0,01	
N,N-dimethylformamide; dimethyl formamide	%	0	0,1	<0,01	
Cadmium	%	0	0,1	<0,01	
Cadmium oxide	%	0	0,1	<0,01	
Ammonium pentadecafluorooctanoate (APFO)	%	0	0,1	<0,01	
Pentadecafluorooctanoic acid(PFOA)	%	0	0,1	<0,01	
Dipentyl phthalate (DPP)	%	0	0,1	<0,01	
a-Nonylphenol, branched and linear, ethoxylated	%	0	0,1	<0,01	

Tabellenlegende (Legend): Chem.: chemische Prüfungen (chemical tests), Phys.: Physikalische Prüfungen (physical tests), n.d.: not detected, n.a.: not analysed, s.r.: see remark, s.c.: see component, pos: positive, neg: negative, Min: Unterer Grenzwert (minimum limit), Max: Oberer Grenzwert (maximum limit)

The test results are only related to the tested items, the selection of the test item occurred by the client. Remaining test material is defeated after 3 months. The report shall not be reproduced except in full without the written approval of the testing laboratory. The report is signed digitally and password protected. For printing use the print option -document and comments-. The analyses of mixed samples is carried out on customer request and may cause a modification to the test standard. Test results of mixed samples which are below a given limit value may exceed this limit caused by one or more single samples. To assure the verification of the limit value it is recommended to test single materials according to test methods.

Method
REACH-Screening test validated in house method DIN EN ISO 17294-2 / EPA 1620
Extraction by chemical solvents, then detection by ICP/ GC-MS