

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : AQUEOUS COATING ON THEBACK OF 1185 TO B FROM THE FILM  
 SGS Ref No. : CAN14-148491  
 Sample Receiving Date : Sep. 9, 2014  
 Test Performing Date : Sep. 9, 2014 to Sep. 15, 2014  
 Test Performed : Selected test(s) as requested by applicant  
 Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
To determine Migration of Certain Elements in the selected parts on the submitted sample(s) with reference to EN71-3: 2013.	PASS
Determination of Chlorinated Phenols (TCP, TeCP, PCP) content(s) in the submitted sample(s).	Refer to next page(s)
Determination of Organostannic compounds(TBT, TPhT, DOT, DBT) contents in the submitted sample(s).	Refer to next page(s)
Determination of Formaldehyde content in the submitted sample(s).	Refer to next page(s)
To determine the Nonylphenol Ethoxylates (NPEOs) & Octylphenol Ethoxylates(OPEOs) content(s) in the submitted sample(s).	Refer to next page(s)
Determination of Azodyes in the submitted sample(s) with reference to the Entry 43 of Regulation (EC) No. 552/2009 amending Annex XVII of REACH Regulation (EC) No. 1907/2006 (previously restricted under Directive 2002/61/EC).	PASS
To determine Phthalates contents in the submitted sample(s).	Refer to next page(s)

Signed for and on behalf of  
 SGS-CSTC Co., Ltd.



Sharky Xia  
 Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-148491.001	Translucent plastic sheet with black printing

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**EN71-3:2013 Migration of Certain Elements (Category III: Scrapped-off toy material)**

Test Method : With reference to EN71-3:2013. Analysis of general elements was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Soluble Aluminum(Al)	70000	mg/kg	50	ND
Soluble Arsenic (As)	47	mg/kg	10	ND
Soluble Boron(B)	15000	mg/kg	50	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND
Soluble Chromium (III) (Cr (III))	460	mg/kg	5	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND
Soluble Lead (Pb)	160	mg/kg	10	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND
Soluble Selenium (Se)	460	mg/kg	10	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND
Soluble Tin(Sn)	180000	mg/kg	4.9	ND
Soluble Organic Tin	12	mg/kg	-	ND
Soluble Chromium (VI) ) (Cr (VI) )	0.2	mg/kg	0.18	ND



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Notes :

- (1) Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI)
- (2) Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3: 2013.
- (3) Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3: 2013.

### Chlorinated Phenols

Test Method : With reference to Modified §64 LFGB 82.02.8 - Alakine (KOH) digestion , analysis was performed by GC-ECD.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
2,4,6-Trichlorophenols(TCP)	mg/kg	0.5	ND
2,3,6-Trichlorophenols(TCP)	mg/kg	0.5	ND
2,3,5-Trichlorophenols(TCP)	mg/kg	0.5	ND
2,4,5-Trichlorophenols(TCP)	mg/kg	0.5	ND
2,3,4-Trichlorophenols(TCP)	mg/kg	0.5	ND
3,4,5-Trichlorophenols(TCP)	mg/kg	0.5	ND
Trichlorophenol (TCP)	mg/kg	-	ND
2,3,4,5-Tetrachlorophenol (TeCP)	mg/kg	0.5	ND
2,3,5,6-Tetrachlorophenol (TeCP)	mg/kg	0.5	ND
2,3,4,6-Tetrachlorophenol (TeCP)	mg/kg	0.5	ND
Tetrachlorophenol (TeCP)	mg/kg	-	ND
Pentachlorophenol (PCP)	mg/kg	0.5	ND

### Organic-tin compounds

Test Method : With reference to ISO 17353: 2004 , analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl tin (DBT)	mg/kg	0.02	ND
Tributyl tin (TBT)	mg/kg	0.02	ND
Diocetyl tin (DOT)	mg/kg	0.02	ND
Triphenyl tin (TPHT)	-	mg/kg	0.02

### Formaldehyde



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Test Method : With reference to ISO 17226-1:2008, analysis was performed by HPLC-DAD.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Formaldehyde Content	mg/kg	16	ND

### **Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)**

Test Method : With reference to US EPA Method 3550C:2007, analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Nonylphenol ethoxylates (NPEOs)	mg/kg	1	ND
Octylphenol ethoxylates (OPEOs)	mg/kg	1	ND

### **Azo Dyes**

Test Method : With reference to EN 14362-1 :2012 - Analysis was conducted with GC-MS/HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND
Benidine	92-87-5	30	mg/kg	5	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND
2-Amino-4-nitrotoluene					
4-chloroaniline	106-47-8	30	mg/kg	5	ND
4-methoxy-m-phenylenediamine	615-05-4	30	mg/kg	5	ND
/ 2,4-Diaminoanisole					
4,4'-diaminodiphenylmethane	101-77-9	30	mg/kg	5	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane /	838-88-0	30	mg/kg	5	ND
4,4'-methylenedi-o-toluidine					
p-cresidine	120-71-8	30	mg/kg	5	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND



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4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND
o-toluidine	95-53-4	30	mg/kg	5	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	30	mg/kg	5	ND
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND

### Conclusion

**PASS**

### Notes :

- (1) Test specimen was taken randomly from the sample submitted by client/applicant.
- (2) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (3) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (4) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

Requirement : ≤ 30 mg/kg for each aromatic amine according to Requirement of Entry 43 of Regulation (EC) No. 552/2009 amending Annex XVII of REACH Regulation (EC) No. 1907/2006 (previously restricted under Directive 2002/61/EC).

### Phthalates

Test Method : With reference to EN14372: 2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Dibutyl Phthalate (DBP)	84-74-2	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	% (w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	% (w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%(w/w)	0.010	ND
1,2-Benzenedicarboxylic acid,	68515-42-4	%(w/w)	0.010	ND



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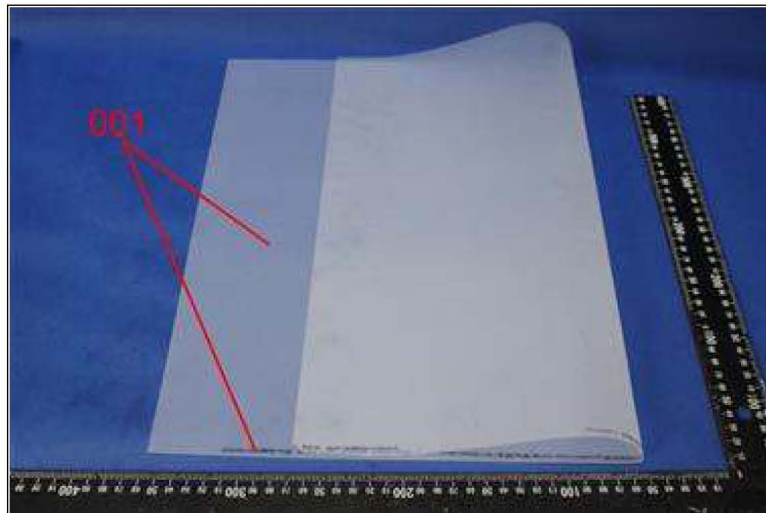
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di- C7-11-branched and linear alkyl esters (DHNUP)

Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND

Remark : This test was subcontracted to SGS other qualified subcontractor.

### Sample photo(s):



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\*\*\*End of Report\*\*\*



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