



**BUREAU
VERITAS**

beeline TEST REPORT

Technical Report: (9019)343-0030
Date Received: DEC. 09, 2019
Date Modified: /
Date Out: DEC. 14, 2019
Sampling by : /

<u>OVERALL RATING</u>	PASS
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Vendor:	SHINING	Factory/Manufacturer:	/
Sample Description:	BAG	Retest:	No
Style No.:	539-259 / 539-261 / 539-260	OO. No.:	1259017 / 1259018
Country of Origin:	CHINA	Country of Destination:	GERMANY
Color:	/	Brand Name:	SIX / IAM
Previous Report No.:	/	Actual OO Date:	2019-11-14

TEST PROPERTY	PASS	FAIL	DATA	COMMENTS
TOTAL LEAD AND CADMIUM CONTENT	X			
AZO DYES CONTENT	X			
PVC CONTENT	X			

TEST RESULT

Total Lead And Cadmium Content

Test Point	Component	Result(ppm)		Limit(ppm)		Conclusion
		Lead	Cadmium	Lead	Cadmium	
1	Golden metal round ring	43.6	<3.0	90	40.0	PASS
2	Golden metal rectangle ring	46.9	<3.0	90	40.0	PASS
3	Golden metal long strip	50.2	<3.0	90	40.0	PASS
4	Golden metal small zipper pull	50.0	4.3	90	40.0	PASS
5	Golden metal small base of zipper head	4.0	6.1	90	40.0	PASS
6	Golden metal big base of zipper head	56.7	<3.0	90	40.0	PASS
7	Golden metal hook	26.1	3.4	90	40.0	PASS
8	Golden metal opening device	23.1	<3.0	90	40.0	PASS
9	Golden metal spring	48.3	<3.0	90	40.0	PASS
10	Golden metal axis	32.4	<3.0	90	40.0	PASS
11	Golden metal base	16.7	<3.0	90	40.0	PASS
12	Golden metal 'D' ring	7.9	<3.0	90	40.0	PASS
13	Golden metal rivet cover	52.0	<3.0	90	40.0	PASS

C/N SM QD/CLAIRE/AZ

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14	Golden metal long axis	29.7	<3.0	90	40.0	PASS
15	Golden metal base of rivet	49.7	<3.0	90	40.0	PASS
16	Golden metal short axis	27.8	<3.0	90	40.0	PASS
17	Golden metal zipper teeth	43.1	<3.0	90	40.0	PASS
18	Brown suede	10.4	<3.0	90	40.0	PASS
19	White thick non-woven fabric + white thin non-woven fabric	<3.0	<3.0	90	10.0	PASS
20	White foam	<3.0	<3.0	90	10.0	PASS
21	Grey thin foam	14.5	<3.0	90	10.0	PASS
22	Grey thick foam	20.4	<3.0	90	10.0	PASS
23	Brown plastic zipper teeth	<3.0	<3.0	90	10.0	PASS
24	Brown coating	9.7	<3.0	90	40.0	PASS
25	Brown zipper teeth fabric	-	-	-	-	EXEMPT
26	Bright brown sewing thread	-	-	-	-	EXEMPT
27	Dark brown sewing thread	-	-	-	-	EXEMPT
28	Brown zipper teeth fabric / fixing thread	-	-	-	-	EXEMPT
29	Brown lining fabric	-	-	-	-	EXEMPT
30	Brown lint fabric / black fabric	-	-	-	-	EXEMPT
31	Brown edge oil	-	-	-	-	EXEMPT

Type I:

Test Method : CPSC-CH-E1003-09.1, Standard Operating Procedure for Determining Lead (Pb) in Paint and Similar Surface Coatings, Feb 25, 2011

Test Method : AOAC 974.02:2005 (Modified). Analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Type II:

Test Method : CPSC-CH-E1001-8.3. Standard Operating Procedure for Determining Total Lead (Pb) in Children 's Metal Products (Including Children 's Metal Jewelry), Revision, Nov 15, 2012

Test Method : EPA 3050B:1996 (Modified) .Analysis by Inductively Coupled Argon Plasma Spectrometer (ICP) or Atomic Absorption Spectrophotometer(AAS)

Type III:

Test Method : CPSC-CH-E1002.08.3 Standard Operating Procedure for Determining Total Lead in Non-Metal Children 's Products, Revision, Nov 15, 2012

Test Method : EPA 3051A:2007 (Modified) or EPA 3052:1996 (Modified). Analysis by Inductively Coupled Argon Plasma Spectrometer (ICP) or Atomic Absorption Spectrophotometer(AAS)

Note:

“<” = Less than

mg/kg = milligram per kilogram = ppm = part per million

TEST RESULT

Aromatic Amines Content in Azo Colorants

Test Method I : European Standard EN ISO 14362-1: 2017

Test Method II : International Standard ISO 17234-1: 2015.

Test Method III : European Standard EN ISO 14362-3: 2017

Test Method IV : International Standard ISO 17234-2: 2011

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Brown suede	-	-
I002	Grey thin foam + grey thick foam	-	-
I003	Brown zipper teeth fabric + dark brown sewing thread + bright brown sewing thread	-	-
I004	Brown zipper teeth fabric / fixing thread	-	-
I005	Brown lining fabric + brown lint fabric / black fabric	-	-
I006	Brown edge oil	-	-
I007	White thick non-woven fabric	-	-
I008	White thin non-woven fabric	-	-
I009	White foam	-	-

Test Requisition[^]	<input type="checkbox"/> Reach 22item Aromatic Amines	<input type="checkbox"/> Reach 22item Aromatic Amines+Aniline
	<input checked="" type="checkbox"/> 24item Aromatic Amines	<input type="checkbox"/> 24item Aromatic Amines+Aniline <input type="checkbox"/> Other

Limit	<input type="checkbox"/> RL:5mg/kg CL:5mg/kg	<input checked="" type="checkbox"/> RL:5mg/kg CL:20mg/kg	<input type="checkbox"/> RL:5mg/kg CL:30mg/kg
	<input type="checkbox"/> RL:10mg/kg CL:10mg/kg	<input type="checkbox"/> RL:10mg/kg CL:20mg/kg	<input type="checkbox"/> RL:10mg/kg CL:30mg/kg
	<input type="checkbox"/> RL:20mg/kg CL:20mg/kg	<input type="checkbox"/> RL:30mg/kg CL:30mg/kg	

Test Item(s)	Result				Conclusion
	Test Method	Detected Analyte(s)	Conc.	Unit	
I001	I	ND	ND	mg/kg	PASS
I002	I	ND	ND	mg/kg	PASS
I003	I	ND	ND	mg/kg	PASS
I004	I	ND	ND	mg/kg	PASS
I005	I	ND	ND	mg/kg	PASS
I006	I	ND	ND	mg/kg	PASS
I007	-	-	-	-	White color component as white is not consider as color
I008	-	-	-	-	White color component as white is not consider as color
I009	-	-	-	-	White color component as white is not consider as color

Note:

ND = Not detected

">" = More than

Conc. = Concentration

mg/kg = milligram per kilogram

deg. C = degree Celsius (°C)

mins = minute(s)

[^] Reach 22item : 1 to 22 Amines in the Appendix list; 24item:1 to 24 Amines in the Appendix list

Remark:

- The list of aromatic amines from azo colorants is summarized in table of Appendix.

- Quantitative and qualitative determinations of aromatic amines are carried out by gas chromatography with mass spectrometer (GC-MS) while qualitative confirmation is carried out by high performance liquid chromatography with diode array detector (HPLC-DAD).
- * The colorant(s) of Test Item(s), that are able to form 4-aminoazobenzene, is (are) able to generate aniline and 1,4-phenylenediamine under the condition of Test Method I or II.
- # Test Item(s) has (have) total mass of less than 0.5 gram and should be defined as minor component(s). The result(s) of this (these) Test Item(s) may has (have) a greater uncertainty due to lower material homogeneity.
- ** Aniline and 1,4-phenylenediamine were detected in the result(s) of Test Item(s) . Therefore, European Standard EN ISO 14362-3: 2012, was further performed on this (these) Test Item(s) in confirming the presence of 4-aminoazobenzene.
- ** Aniline and 1,4-phenylenediamine were detected in the result(s) of Test Item(s). Therefore, test method, International Standard ISO 17234-2: 2011, was further performed on this (these) Test Item(s) in confirming the presence of 4-aminoazobenzene.
- 4-Aminobiphenyl was detected in the result(s) of Test Item(s). This (These) Test Item(s) may has (have) colored with colorant(s) whose structure(s) contain(s) amine(s) but not azo bound. The use of azo colorant(s) cannot be readily ascertained without additional information (For example, chemical structure(s) of the colorant(s).).
- 2-Naphthylamine was detected in the result(s) of Test Item(s). This (These) Test Item(s) may has (have) colored with colorant(s) whose structure(s) contain(s) amine(s) but not azo bound. The use of azo colorant(s) cannot be readily ascertained without additional information (For example, chemical structure(s) of the colorant(s).).
- 4-Methoxy-m-phenylenediamine was detected in the result(s) of Test Item(s). This (These) Test Item(s) may has (have) colored with azo colorant(s) whose structure(s) does (do) not contain preformed 4-methoxy-m-phenylenediamine but 2-amino-4-nitroanisole under the condition of Test Method I. The use of azo colorant(s) cannot be readily ascertained without additional information (For example, chemical structure(s) of the colorant(s).).
- 4,4-diaminodiphenylmethane had been detected in the result(s) of Test Item(s) under the condition of Test Method I or II. Please note that detected aromatic amines must stem from azo dyes but not from other materials e.g. Polyurethane. If forbidden amines are built by others materials, this (these) Test Item(s) should not be considered as fail according to the European Legislation. By extracting the Test Item(s) directly without applying the reduction step 4,4-Diisocyanatodiphenylmethane has (have) been detected.

APPENDIX

List of Aromatic Amines in Azo Colorants					
No.	Name of Analytes	CAS-No. [EC No.]	No.	Name of Analytes	CAS-No. [EC No.]
1	4-Aminobiphenyl (4-biphenylamine or Xenylamine)	92-67-1 [202-177-1]	12	3,3'-Dimethylbenzidine (4,4'-Bi-o-tolidine)	119-93-7 [204-358-0]
2	Benzidine	92-87-5 [202-199-1]	13	4,4'-Methylenedi-o-toluidine (3,3'-Dimethyl-4,4'-diaminodiphenylmethane)	838-88-0 [212-658-8]
3	4-Chloro-o-toluidine	95-69-2 [202-441-6]	14	p-Cresidine (6-Methoxy-m-toluidine)	120-71-8 [204-419-1]
4	2-Naphthylamine	91-59-8 [202-080-4]	15	4,4'-Methylene-bis-(2-chloraniline) (2,2'-Dichloro-4,4'-methylene-dianiline)	101-14-4 [202-918-9]
5	o-Aminoazotoluene (4-Amino-2',3-dimethylazobenzene or 4-o-tolyazo-o-toluidine)	97-56-3 [202-591-2]	16	4,4'-Oxydianiline	101-80-4 [202-977-0]
6	5-nitro-o-toluidine (2-Amino-4-nitrotoluene)	99-55-8 [202-765-8]	17	4,4'-Thiodianiline	139-65-1 [205-370-9]
7	4-Chloroaniline (p-Chloroaniline)	106-47-8 [203-401-0]	18	o-Toluidine (2-Aminotoluene)	95-53-4 [202-429-0]
8	4-Methoxy-m-phenylenediamine (2,4-Diaminoanisole)	615-05-4 [210-406-1]	19	4-Methyl-m-phenylenediamine (2,4-Toluenediamine)	95-80-7 [202-453-1]
9	4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline)	101-77-9 [202-974-4]	20	2,4,5-Trimethylaniline	137-17-7 [205-282-0]

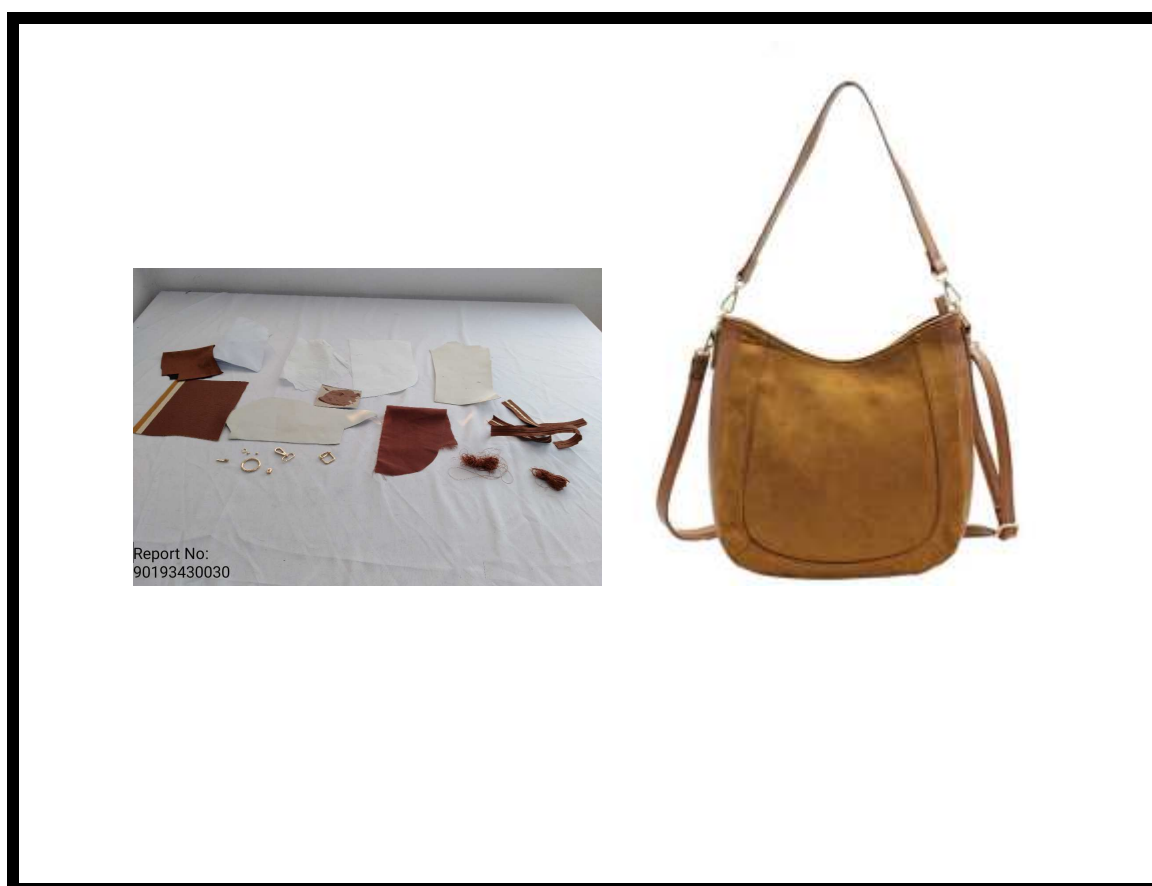
10	3,3'-Dichlorobenzidine (3,3'-Dichlorobiphenyl-4,4'- ylenediamine)	91-94-1 [202-109-0]	21	o-Anisidine (2-Methoxyaniline)	90-04-0 [201-963-1]
11	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4 [204-355-4]	22	4-Aminoazobenzene (p-Aminoazobenzene)	60-09-3 [200-453-6]
23	2,4 - Xylidine	95-68-1	24	2,6 - Xylidine	87-62-7

TEST RESULT

Qualitative Material Identification for Polyvinyl Chloride (PVC) by Beilstein Test

Test Item(s)	Result	Conclusion
Brown suede	PVC FREE	PASS
Brown lint fabric / black fabric	PVC FREE	PASS

Original Sample



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END OF REPORT