



Test
TS EN ISO/IEC 17025
AB-0716-T

AB-0716-T
TURT240046946 _REVISED01
05-24

TEST REPORT

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REPORT NUMBER : TURT240046946_REVISED01
APPLICANT NAME Bigpoint Kırtasiye San. ve Tic.Ltd.Şti.
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SAMPLE DESCRIPTION :

- Sample 1:** One sample of Transparent B6 Snap File (BP231-B03)
- Sample 2:** One sample of Red B6 Snap File (BP231-B25)
- Sample 3:** One sample of Yellow B6 Snap File (BP231-B15)
- Sample 4:** One sample of Green B6 Snap File (BP231-B55)
- Sample 5:** One sample of Blue B6 Snap File (BP231-B35)
- Sample 6:** One sample of Transparent A5 Snap File (BP231-03)
- Sample 7:** One sample of Red A5 Snap File (BP231-25)
- Sample 8:** One sample of Yellow A5 Snap File (BP231-15)
- Sample 9:** One sample of Green A5 Snap File (BP231-55)
- Sample 10:** One sample of Blue A5 Snap File (BP231-35)
- Sample 11:** One sample of Transparent A4 Locked File (BP245-03)
- Sample 12:** One sample of Yellow A4 Locked File (BP245-15)
- Sample 13:** One sample of Green A4 Locked File (BP245-55)
- Sample 14:** One sample of Pink A4 Locked File (BP245-25)
- Sample 15:** One sample of Blue A4 Locked File (BP245-35)
- Sample 16:** One sample of Blue A4 Clip File 60 Sheets Capacity (BP274-35)
- Sample 17:** One sample of Black A4 Clip File 60 Sheets Capacity (BP274-95)
- Sample 18:** One sample of Blue Compressed File 60 sheets Capacity (BP272-35)
- Sample 19:** One sample of Black Compressed File 60 sheets Capacity (BP272-95)
- Sample 20:** One sample of Black Document File (BP259-95)
- Sample 21:** One sample of Yellow A3 Snap File (BP234-15)
- Sample 22:** One sample of Blue A3 Snap File (BP234-35)
- Sample 23:** One sample of Green A3 Snap File (BP234-55)
- Sample 24:** One sample of Red A3 Snap File (BP234-25)
- Sample 25:** One sample of Transparent A3 Snap File (BP234-03)

MANUFACTURER : SHANTOU YUANSHEG INDUSTRI CO., LTD
COUNTRY OF ORIGIN : CHINA

İrem YURTVERMEZ YILMAZ
Customer Care Executive

Kerem CAN
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DATE IN : 19 April, 2024 (10:32)

RESUBMIT DATE : 16 May, 2024

DATE OUT : 29 April, 2024 / 16 May, 2024

NOTE : In this revised 01 report, Release Of Nickel For Coated Item test was added.
This report replaced the report no TURT240046946 dated on 29 April, 2024 and must be used instead of it.
Report no TURT240046946 dated on 29 April, 2024 is invalid.

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SAMPLE PICTURES



RESULTS

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Part No	Tested Part
1	Multicolour Sticker (Sample 1&2&3&4&5&6&7&8&9&10&11&12&13&14&15&21&22&23&24&25)
2	White Plastic Nail (Sample 1&2&3&4&5&6&7&8&9&10&21&22&23&24&25)
3	White Plastic Stud (Sample 1&2&3&4&5&6&7&8&9&10&21&22&23&24&25)
4	White Plastic Socket (Sample 1&2&3&4&5&6&7&8&9&10&21&22&23&24&25)
5	Black Print (Sample 1&2&3&4&5&11&12&13&14&15&20&21&22&23&24&25)
6	Trans Plastic Slider (Sample 11&12&13&14&15)
7	Trans Plastic Zipper (Sample 11&12&13&14&15)
8	Trans Plastic Bag (Sample 1)
9	Red Plastic Bag (Sample 2)
10	Yellow Plastic Bag (Sample 3)
11	Green Plastic Bag (Sample 4)
12	Blue Plastic Bag (Sample 5)
13	Trans Plastic Bag (Sample 6)
14	Red Plastic Bag (Sample 7)
15	Yellow Plastic Bag (Sample 8)
16	Green Plastic Bag (Sample 9)
17	Blue Plastic Bag (Sample 10)
18	Trans Plastic Bag (Sample 11)
19	Yellow Plastic Bag (Sample 12)
20	Green Plastic Bag (Sample 13)
21	Red Plastic Bag (Sample 14)
22	Blue Plastic Bag (Sample 15)
23	Blue File (Sample 16&18)
24	Black File (Sample 17&19)
25	Trans Inner Plastic Part (Sample 16&17&18&19)
26	TransOuter Plastic Part (Sample 16&17&18&19)
27	Multicolour Blue Paper Part (Sample 16&18)
28	Multicolour Grey Paper Part (Sample 17&19)
29	Yellow Plastic Bag (Sample 21)
30	Blue Plastic Bag (Sample 22)
31	Green Plastic Bag (Sample 23)
32	Red Plastic Bag (Sample 24)
33	Trans Plastic Bag (Sample 25)
34	Opaque Black Plastic Bag (Sample 20)
35	Trans Inner Plastic Part (Sample 20)
36	Multicolour Carton Badge (Sample 20)
37	Black Coated Textile Part (Sample 20)
38	Black Elastic Tape (Sample 20)
39	Silver Corner Metal Part (Sample 20)
40	Silver Square Metal Part (Sample 20)
41	Silver Rectangle Metal Part (Sample 20)
42	Silver Metal Tip (Sample 20)
43	Silver Nail Shank (Sample 16&17&18&19)
44	Silver Nail Post (Sample 16&17&18&19)
45	Silver Spring End Part (Sample 16&17)

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Part No	Tested Part
46	Silver Spring (Sample 16&17)
47	Silver Spring Separator (Sample 16&17)
48	Silver File Separator (Sample 16&17)
49	Silver File Separator Button (Sample 16&17)
50	Silver Metal Panel (Sample 18&19)
51	Silver Metal Button (Sample 18&19)
52	Silver Metal Clips (Sample 18&19)
53	Silver Metal Nail (Sample 18&19)
54	Silver Metal Spring (Sample 18&19)
55	Blue Coating (Sample 16&17)
56	Black Coating (Sample 18&19)
57	Black Textile side Trim (Sample 20)

Remark: Only suitable parts tested for the related tests.

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RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Failed Item
DETERMINATION OF CERTAIN AROMATIC AMINES DERIVED FROM AZO	EN ISO 14362-1 determined by GC-MS, HPLC-MS	P	-	<30 ppm	REACH ANNEX XVII	-
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) ANALYSIS	IHTM AL.2.032 based on AfPS GS & EN 17132 by GC-MS	P	-	1 ppm	REACH ANNEX XVII	-
DETERMINATION OF CADMIUM CONTENT	IHTM AL.2.222 refer to USEPA 3050B / USEPA 3051A/ US EPA 3052 by acid digestion and determined by ICP-OES	P	-	Metal, Plastic 100 ppm; Coating, print, dye 1000 ppm	REACH ANNEX XVII	-
DETERMINATION OF LEAD CONTENT	IHTM AL.2.222 refer to USEPA 3050B / USEPA 3051A/ US EPA 3052 by acid digestion and determined by ICP-OES	P	-	500 ppm (0.05%)	REACH ANNEX XVII	-
TRIBUTYL TIN (TBT) CONTENT	INTERTEK IHTM AL.2.030 refer to ISO 17353 / BS EN ISO 17353	P	-	1000 ppm (0.1%)	REACH ANNEX XVII	-
RELEASE OF NICKEL FOR COATED ITEM	BS EN 12472 & EN 1811 by ICP-MS Determination	P	-	<0.88	REACH ANNEX XVII	-
DMFU CONTENT	IHTM AL.2.136 By Solvent Extraction and Chromatographic Analysis using Mass Spectrometry (GC-MS)	P	-	1000 ppm (0.1%)	REACH ANNEX XVII	-
DETERMINATION OF BISPHEENOL A (BPA) CONTENT	IHTM AL.2.330	NA	NA	No Requirement	REACH ANNEX XVII	-
DETERMINATION OF CR+VI CONTENT	ISO 17075-2 with HPLC Determination	NA	NA	3 ppm	REACH ANNEX XVII	-
DETERMINATION OF DIETHYLENE GLYCOL MONOBUTYL (DEGBE)	IHTM AL.2.409 refer to EPA 5000 & EPA 5021A with Headspace GC/MS	NA	NA	≤(3%)	REACH ANNEX XVII	-
TOLUENE CONTENT	IHTM AL.2.409 refer to EPA 5000 & EPA 5021A with Headspace GC/MS	P	-	≤1000 ppm (0.1%)	REACH ANNEX XVII	-
VINYL CHLORIDE MONOMER(VCM) CONTENT	IHTM AL.2.393 refer to ISO 6401 and GB/T 4615	NA	NA	No Requirement	REACH ANNEX XVII	-

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RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Failed Item
DETERMINATION OF LEAD CARBONATE / SULFATE CONTENT	IHTM AL.2.222 refer to USEPA 3050B / USEPA 3051A/ US EPA 3052 by acid digestion and determined by ICP-OES	NA	NA	Not Detected	REACH ANNEX XVII	-

P = MEETS BUYER' S REQUIREMENT (GEÇTİ) / F = DOES NOT MEET BUYER' S REQUIREMENT (KALDI) / NR = NO REQUIREMENT (SINIR DEĞER BELİRTİLMEDİ) / SC=STILL CONTINUES (TEST İŞLEMİ DEVAM EDİYOR) / X=NOT PERFORMED (TEST EDİLMEDİ) / I = INCONCLUSIVE / NC = NO COMMENT / NA= NOT APPLICABLE

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DETERMINATION OF CERTAIN AROMATIC AMINES DERIVED FROM AZO

EN ISO 14362-1 determined by GC-MS, HPLC-MS

1-Part 20&57 (with extraction)

2-Part 20&57 (without extraction)

<u>FORBIDDEN AMINE</u>	<u>CAS NO</u>	<u>RESULT</u>	
		<u>1</u>	<u>2</u>
4-AMINOBIHENYL	92-67-1	N	N
BENZIDINE	92-87-5	N	N
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	N	N
2-NAPHTHYLAMINE	91-59-8	N	N
*O-AMINOAZOTOLUENE	97-56-3	N	N
*2-AMINO-4-NITROTOLUENE	99-55-8	N	N
P-CHLOROANILINE	106-47-8	N	N
2,4-DIAMINOANISOLE	615-05-4	N	N
4,4'-DIAMINOBIHENYLMETHANE	101-77-9	N	N
3,3'-DICHLOOROBENZIDINE	91-94-1	N	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N	N
3,3'-DIMETHYL-4,4' DIAMINOBIHENYLMETHANE	838-88-0	N	N
P-CRESIDINE	120-71-8	N	N
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4	N	N
4,4'-OXYDIANILINE	101-80-4	N	N
4,4'-THIODIANILINE	139-65-1	N	N
O-TOLUIDINE	95-53-4	N	N
2,4-TOLUYLENDIAMINE	95-80-7	N	N
2,4,5-TRIMETHYLANILINE	137-17-7	N	N
O-ANISIDINE	90-04-0	N	N
**P-AMINOAZOBENZENE	60-09-3	N	N

NOTE:

- 1)The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylenediamine.
- 2)Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylenediamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.
- 3)According to EN 14362-1:2017, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5 ppm and 30 ppm.
- 4)Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC
- 5) According to the official method EN 14362-1:2017, if 4-Aminodiphenyl or 2-Naphthylamine or 2,4-Diaminoanisole is found exceeding requirement, the use of forbidden Azo colourants cannot be ascertained without additional information e.g. The chemical structure of the colourant used.

<=	Less Than
N=	Not Detected
Requirement=	30 ppm
ppm(part per million)=	mg/ kg
Detection Limit =	5 ppm
Estimated Total Uncertainty=	Textile: ±17% ; Polyester: ±16%

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

IHTM AL.2.032 based on AfPS GS & EN 17132 by GC-MS

	Part 2&3&4	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

	Part 6	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

	Part 7&8&9	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

ppm (part per million) = mg / kg
Detection Limit = 0.1 ppm

Estimated Total Uncertainty = (Textile:±15%, Plastic:±17%)

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

IHTM AL.2.032 based on AfPS GS & EN 17132 by GC-MS

	Part 10&11&12	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

	Part 13&14&15	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

	Part 16&17&18	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

ppm (part per million) = mg / kg
Detection Limit = 0.1 ppm

Estimated Total Uncertainty = (Textile:±15%, Plastic:±17%)

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

IHTM AL.2.032 based on AfPS GS & EN 17132 by GC-MS

	Part 19&20&21	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

	Part 22&23&24	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

	Part 25&26&29	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

ppm (part per million) = mg / kg
Detection Limit = 0.1 ppm

Estimated Total Uncertainty = (Textile:±15%, Plastic:±17%)

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

IHTM AL.2.032 based on AfPS GS & EN 17132 by GC-MS

	Part 30&31&32	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

	Part 33&34&35	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

	Part 37	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	1 ppm
2	Benzo (e) pyrene	Not Detected	1 ppm
3	Benzo (a) anthracene	Not Detected	1 ppm
4	Benzo (b) fluoranthene	Not Detected	1 ppm
5	Benzo (j) fluoranthene	Not Detected	1 ppm
6	Benzo (k) fluoranthene	Not Detected	1 ppm
7	Chrysene	Not Detected	1 ppm
8	Dibenzo (a,h) anthracene	Not Detected	1 ppm

ppm (part per million) = mg / kg
Detection Limit = 0.1 ppm

Estimated Total Uncertainty = (Textile:±15%, Plastic:±17%)

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DETERMINATION OF CADMIUM CONTENT

IHTM AL.2.222 refer to USEPA 3050B / USEPA 3051A/ US EPA 3052 by acid digestion and determined by ICP-OES

	RESULTS	REQUIREMENT
Part 1	Not Detected	100 ppm (0.01%)
Part 2&3&4	Not Detected	100 ppm (0.01%)
Part 5	Not Detected	100 ppm (0.01%)
Part 6&7&8	Not Detected	100 ppm (0.01%)
Part 9&10&11	Not Detected	100 ppm (0.01%)
Part 12&13&14	Not Detected	100 ppm (0.01%)
Part 15&16&17	Not Detected	100 ppm (0.01%)
Part 18&19&20	Not Detected	100 ppm (0.01%)
Part 21&22	Not Detected	100 ppm (0.01%)
Part 23&24	Not Detected	100 ppm (0.01%)
Part 25&26	Not Detected	100 ppm (0.01%)
Part 27&28	Not Detected	100 ppm (0.01%)
Part 29&30&31	Not Detected	100 ppm (0.01%)
Part 33&32	Not Detected	100 ppm (0.01%)
Part 34&35	Not Detected	100 ppm (0.01%)
Part 36	Not Detected	100 ppm (0.01%)
Part 37	Not Detected	100 ppm (0.01%)
Part 38	Not Detected	100 ppm (0.01%)
Part 39	Not Detected	100 ppm (0.01%)
Part 40	Not Detected	100 ppm (0.01%)
Part 41	Not Detected	100 ppm (0.01%)
Part 42	Not Detected	100 ppm (0.01%)
Part 43	Not Detected	100 ppm (0.01%)
Part 44	Not Detected	100 ppm (0.01%)
Part 45	Not Detected	100 ppm (0.01%)
Part 46	Not Detected	100 ppm (0.01%)
Part 47	Not Detected	100 ppm (0.01%)
Part 48	Not Detected	100 ppm (0.01%)
Part 49	Not Detected	100 ppm (0.01%)
Part 50	Not Detected	100 ppm (0.01%)
Part 51	Not Detected	100 ppm (0.01%)
Part 52	Not Detected	100 ppm (0.01%)
Part 53	Not Detected	100 ppm (0.01%)
Part 54	Not Detected	100 ppm (0.01%)
Part 55&56	Not Detected	1000 ppm (0.1%)
Part 57	Not Detected	100 ppm (0.01%)

ppm: parts per million (mg/kg)
Detection Limit : 8 ppm

REMARK As per Lead Content Requirement in Annex XVII Entry 63, and Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No:1907/2006 (Formerly Known as Directive 91/338/EEC), Acid Digestion Method was used Total Lead Content was determined by ICP-OES

Estimated Total Uncertainty=(Dye: ±16%, Glass: ±16%, Metal: ±16%, Plastic: ±16%, Textile: ±15%)

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DETERMINATION OF LEAD CONTENT

IHTM AL.2.222 refer to USEPA 3050B / USEPA 3051A/ US EPA 3052 by acid digestion and determined by ICP-OES

	RESULTS	REQUIREMENT
Part 1	Not Detected	500 ppm (0.05%)
Part 2&3&4	Not Detected	500 ppm (0.05%)
Part 5	Not Detected	500 ppm (0.05%)
Part 6&7&8	Not Detected	500 ppm (0.05%)
Part 9&10&11	Not Detected	500 ppm (0.05%)
Part 12&13&14	Not Detected	500 ppm (0.05%)
Part 15&16&17	Not Detected	500 ppm (0.05%)
Part 18&19&20	Not Detected	500 ppm (0.05%)
Part 21&22	Not Detected	500 ppm (0.05%)
Part 23&24	Not Detected	500 ppm (0.05%)
Part 25&26	Not Detected	500 ppm (0.05%)
Part 27&28	Not Detected	500 ppm (0.05%)
Part 29&30&31	Not Detected	500 ppm (0.05%)
Part 33&32	Not Detected	500 ppm (0.05%)
Part 34&35	Not Detected	500 ppm (0.05%)
Part 36	Not Detected	500 ppm (0.05%)
Part 37	Not Detected	500 ppm (0.05%)
Part 38	Not Detected	500 ppm (0.05%)
Part 39	Not Detected	500 ppm (0.05%)
Part 40	Not Detected	500 ppm (0.05%)
Part 41	Not Detected	500 ppm (0.05%)
Part 42	Not Detected	500 ppm (0.05%)
Part 43	Not Detected	500 ppm (0.05%)
Part 44	Not Detected	500 ppm (0.05%)
Part 45	Not Detected	500 ppm (0.05%)
Part 46	Not Detected	500 ppm (0.05%)
Part 47	Not Detected	500 ppm (0.05%)
Part 48	Not Detected	500 ppm (0.05%)
Part 49	Not Detected	500 ppm (0.05%)
Part 50	Not Detected	500 ppm (0.05%)
Part 51	Not Detected	500 ppm (0.05%)
Part 52	Not Detected	500 ppm (0.05%)
Part 53	Not Detected	500 ppm (0.05%)
Part 54	Not Detected	500 ppm (0.05%)
Part 55&56	Not Detected	500 ppm (0.05%)
Part 57	Not Detected	500 ppm (0.05%)

ppm: parts per million (mg/kg)
Detection Limit : 8 ppm

REMARK As per Lead Content Requirement in Annex XVII Entry 63, and Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No:1907/2006 (Formerly Known as Directive 91/338/EEC), Acid Digestion Method was used Total Lead Content was determined by ICP-OES

Estimated Total Uncertainty=(Dye: ±16%, Glass: ±16%, Metal: ±16%, Plastic: ±16%, Textile: ±15%)

R E S U L T S

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16 May, 2024

TRIBUTYL TIN (TBT) CONTENT

INTERTEK IHTM AL.2.030 refer to ISO 17353 / BS EN ISO 17353

ETHANOL EXTRACTION, DERIVATISATION AND ANALYSIS BY GAS CHROMATOGRAPY - MASS SPECTROPHOTOMETRY

	RESULTS	REQUIREMENT
Part 2&3&4	Not Detected	1000 ppm (0.1%)
Part 6&7&8	Not Detected	1000 ppm (0.1%)
Part 9&10&11	Not Detected	1000 ppm (0.1%)
Part 12&13&14	Not Detected	1000 ppm (0.1%)
Part 15&16&17	Not Detected	1000 ppm (0.1%)
Part 18&19&20	Not Detected	1000 ppm (0.1%)
Part 21&22&23	Not Detected	1000 ppm (0.1%)
Part 24&25&26	Not Detected	1000 ppm (0.1%)
Part 29&30&31	Not Detected	1000 ppm (0.1%)
Part 32&33&34	Not Detected	1000 ppm (0.1%)
Part 35	Not Detected	1000 ppm (0.1%)

ppm: parts per million (mg/kg)
Detection Limit : 0.050 ppm

Estimated Total Uncertainty=(Plastic:±%19 ; Leather:±%19)

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RELEASE OF NICKEL FOR COATED ITEM

BS EN 12472 & EN 1811 by ICP-MS Determination

<u>Tested Component</u>	<u>Trial</u>	<u>Area (cm²)</u>	<u>Final Volume (ml)</u>	<u>Volume (ml)</u>	<u>Result Δ (μg/cm²/week)</u>
Part 43	1	0.81	10	0.81	0.07*
	2	0.81	10	0.81	<0.05*

*Due to insufficient sample size, 3 parallel samples could not be tested.

Requirement = 0.88 μg/cm²/week

< =Less Than

Detection limit =0.05 μg/cm²/week

Remark =Nickel Content Requirement in Annex XVII Item 27 of the Reach Regulation (EC) No:1907/2006 & Amendment No. 552/2009 (Formerly known as Directive 94/27/EC and 2004/96/EC)

Remark :

Δ = According to EN 1811 compliance decision was made based on the following rules.

Result	Interpretation
< 0.88	Compliance (Pass)
≥ 0.88	Non-compliance (Fail)

Estimated Total Uncertainty = (±8%)

R E S U L T S

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DETERMINATION OF DIMETHYLFUMARATE CONTENT

INTERTEK IHTM AL.2.136 By Solvent Extraction and Chromatographic Analysis using Mass Spectrometry (GC-MS)
Solvent Extraction Followed By GC/ MS Analysis

Part 37&38	RESULTS (mg/kg)	REQUIREMENT (mg/kg)
Dimethylfumarate (DMFu)	Not Detected	1000 ppm (0.1%)

ppm: parts per million (mg/kg)
Detection Limit : 0.01 mg/kg

Estimated Total Uncertainty=(Silica gel:±30% ; Textile:±15% ; Leather:±28% , Polymer:±15%)

TOLUENE CONTENT

IHTM AL.2.409 refer to EPA 5000 & EPA 5021A with Headspace GC/MS

Part 1	Result	Requirement
	Not Detected	≤1000 ppm (0.1%)

ppm (part per million) = mg / kg
Detection Limit = 5 ppm
Estimated Total Uncertainty = Plastic: ±9% ; Liquid: ±9% ; Textile: ±8%

END OF TEST REPORT