

TEST REPORT

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REPORT NUMBER : TURT260015003
APPLICANT NAME Abka Kırtasiye ve Amb.San.Tic.Ltd.Şti.
ADDRESS İ.O.S.B.Mah.Atatürk Oto Ünal İş Mrk Sk Ünal İş Mrk NO:1/27 Başakşehir / İstanbul / TURKEY
Attention : Tuğba (tugba@abka.com.tr)
SAMPLE DESCRIPTION :
Sample 1: One Sample of of Bicycle patterned - Silver stones metal accessory
Sample 2: One Sample of Purple - Peace designed silver stone metal accessory
Sample 3: One Sample of Key designed silver stones metal accessory
Sample 4: One Sample of Purple heart designed metal accessory
Sample 5: One Sample of Umbrella designed metal accessory
Sample 6: One Sample of Blue cat designed metal accessory
DATE IN : 06 February, 2026
RESUBMIT DATE: 20 February, 2026
DATE OUT : 25 February, 2026

SAMPLE PHOTOS:
Sample 1&2&3&4&5&6



Gaye CALIŞKAN

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Customer Care Executive

E. Çalik

Emre ÇALIK
Chemical Laboratory Manager

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Part No	Tested Part
1	Silver metal bicycle patterned accessory (SAMPLE 1)
2	Silver metal peace accessory (SAMPLE 2)
3	Silver metal key accessory (SAMPLE 3)
4	Silver metal heart accessory (SAMPLE 4)
5	Silver metal umbrella accessory (SAMPLE 5)
6	Silver metal cat accessory (SAMPLE 6)
7	White back plastic part (SAMPLE 1&2&3&4&5&6)
8	Purple plastic part (SAMPLE 2&4)
9	Salmon plastic part (SAMPLE 3)
10	Orange plastic part (SAMPLE 5)
11	Blue plastic part (SAMPLE 6)
12	Silver glass beads (SAMPLE 1)
13	Red glass beads (SAMPLE 1)
14	Silver glass beads (SAMPLE 2&4)
15	Silver big glass beads (SAMPLE 3)
16	Silver small glass beads (SAMPLE 5)

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	NA	NA	<30 ppm	REACH ANNEX XVII	-
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) ANALYSIS	In-House Method – "IHTM AL.2.032 Rev.15" (Based on AfPS GS and EN 17132) (Using GC-MS)	P	-	0.5 ppm	REACH ANNEX XVII	-
DETERMINATION OF CADMIUM CONTENT	In-House Method – "IHTM AL.2.222. Rev.10" (With reference to EPA 3050B, EPA 3051A, EPA 3052) (Using ICP-OES)	P	-	Metal, Plastic 100 ppm; Coating, print, dye 1000 ppm	REACH ANNEX XVII	-
DETERMINATION OF LEAD CONTENT	In-House Method – "IHTM AL.2.222. Rev.10" (With reference to EPA 3050B, EPA 3051A, EPA 3052) (Using ICP-OES)	P	-	500 ppm (0.05%)	REACH ANNEX XVII	-
DETERMINATION OF LEAD RELEASE BY ARTIFICIAL SALIVA SOLUTION	BS EN 16711-3 by ICP-MS	P	-	0.05 µg/cm ² /hour	REACH ANNEX XVII	-
TRIBUTYL TIN (TBT) CONTENT	In-House Method – "IHTM AL.2.030 Rev.13" (based on ISO 17353) (Using GC-MS)	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	In-House Method – "IHTM AL.2.136. Rev.10" (Based on BS EN 17130) (Using GC-MS)	NA	NA	1000 ppm (0.1%)	REACH ANNEX XVII	-
DETERMINATION OF BISPHENOL A (BPA) CONTENT	In-House Method - "IHTM AL.2.330 Rev.5" (Using LC-MS-MS)	NA	NA	≤0.02 ppm	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)	In-house method – "IHTM AL.2.409. Rev.2" (Based on EPA 5000 & EPA 5021A) (Using GC-MS Headspace)	NA	NA	≤(3%)	REACH ANNEX XVII	-
TOLUENE CONTENT	In-house method – "IHTM AL.2.409. Rev.2" (Based on EPA 5000 & EPA 5021A) (Using GC-MS Headspace)	NA	NA	≤1000 ppm (0.1%)	REACH ANNEX XVII	-

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RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Failed item
VINYL CHLORIDE MONOMER(VCM) CONTENT	In-House Method – “IHTM AL.2.393. Rev.1”(based on ISO 6401 and GB/T 4615) (using GC-MS-HS)	NA	NA	No Requirement	REACH ANNEX XVII	-
DETERMINATION OF LEAD CARBONATE / SULFATE CONTENT	In-House Method – “IHTM AL.2.222. Rev.10” (With reference to EPA 3050B, EPA 3051A, EPA 3052) (Using ICP-OES)	NA	NA	No Requirement	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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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

In-House Method – "IHTM AL.2.032 Rev.15" (Based on AfPS GS and EN 17132) (Using GC-MS)

	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

	Part 10&11	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

In-House Method – "IHTM AL.2.222. Rev.10" (With reference to EPA 3050B, EPA 3051A, EPA 3052) (Using ICP-OES)

	RESULTS	REQUIREMENT
Part 7	Not Detected	100 ppm (0.01%)
Part 8	Not Detected	100 ppm (0.01%)
Part 9	Not Detected	100 ppm (0.01%)
Part 10	Not Detected	100 ppm (0.01%)
Part 11	Not Detected	100 ppm (0.01%)

ppm: =parts per million (mg/kg)
Detection Limit : =8 ppm
% =Percentage based on dry weight of Sample

REMARK : As per Cadmium Content Requirement in Annex XVII item 23 of the REACH Regulation (EC) No: 1907/2006 (Formerly Known as Directive 91/338/EEC), Acid Digestion Method was used Total Cadmium 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

In-House Method – "IHTM AL.2.222. Rev.10" (With reference to EPA 3050B, EPA 3051A, EPA 3052) (Using ICP-OES)

	RESULTS	REQUIREMENT
Part 1	Not Detected	500 ppm (0.05%)
Part 2	Not Detected	500 ppm (0.05%)
Part 3	12 ppm	500 ppm (0.05%)
Part 4	Not Detected	500 ppm (0.05%)
Part 5	Not Detected	500 ppm (0.05%)
Part 6	12 ppm	500 ppm (0.05%)
Part 7	Not Detected	500 ppm (0.05%)
Part 8	Not Detected	500 ppm (0.05%)
Part 9	832 ppm	*
Part 10	2473 ppm	*
Part 11	Not Detected	500 ppm (0.05%)
Part 12	Not Detected	500 ppm (0.05%)
Part 13	Not Detected	500 ppm (0.05%)
Part 14	Not Detected	500 ppm (0.05%)
Part 15	Not Detected	500 ppm (0.05%)
Part 16	Not Detected	500 ppm (0.05%)

* According to REACH Annex XVII, the evaluation of result exceeding 500 ppm will be made through Determination of Lead Release by Artificial Saliva Solution test results and requirements

ppm: =parts per million (mg/kg)
Detection Limit : =8 ppm
% =Percentage based on dry weight of Sample

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

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DETERMINATION OF LEAD RELEASE BY ARTIFICIAL SALIVA SOLUTION

BS EN 16711-3 by ICP-MS

Tested Component	Trial	Sample Area (cm ²)	Volume Of Test Solution (ml)	Result Δ (μg/cm ² /hour)
Part 9	1	2.75	2.75	<0.05
	2	2.75	2.75	<0.05
	3	2.75	2.75	<0.05
Part 10	1	1.42	1.42	<0.05
	2	1.42	1.42	<0.05
	3	1.42	1.42	<0.05

Requirement = 0.05 μg/cm²/hour

< =Less Than

Detection limit =0.05 μg/cm²/hour

Remark = #The result of lead release of the sample is based on a draft method. Since the test method is not harmonized, and the result cannot demonstrate the compliance of Commission Regulation (EU) No. 628/2015 Amending the REACH Regulation (EC) No 1907/2006 Annex XVII (Entry 63), where the lead release limit is 0.05 μg /cm² per hour. Estimated Total Uncertainty=(Painted Metal: ±%6 ; Polymer Coated Metal:±%8 ; Coated Textile:±%9)

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TRIBUTYL TIN (TBT) CONTENT

In-House Method – "IHTM AL.2.030 Rev.13" (based on ISO 17353) (Using GC-MS)

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

	RESULTS	REQUIREMENT
Part 7&8&9	Not Detected	1000 ppm (0.1%)
Part 10&11	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 ($\mu\text{g}/\text{cm}^2/\text{week}$)</u>
Part 1	1	19.23	50	19.23	<0.05*
Part 2	1	10.57	50	10.57	<0.05*
Part 3	1	10.02	50	10.02	<0.05*
Part 4	1	8.44	25	8.44	<0.05*
Part 5	1	9.86	25	9.86	<0.05*
Part 6	1	10.65	50	10.65	<0.05*

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

Requirement = 0.88 $\mu\text{g}/\text{cm}^2/\text{week}$

< =Less Than

Detection limit =0.05 $\mu\text{g}/\text{cm}^2/\text{week}$

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)
$\geq$ 0.88	Non-compliance (Fail)

Estimated Total Uncertainty = ($\pm 8\%$)

END OF TEST REPORT

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