



AB-0716-T

TURT230055211

06-23

TEST REPORT

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REPORT NUMBER : TURT230055211
APPLICANT NAME **Haslar Kırtasiye Malz.Ürt.San.Tic.Ltd.Şti.**
ADDRESS Beşyol Mah.Aliağa Sok.No:6 İç Kapı No:1 Küçükçekmece/İstanbul
Attention : **Mustafa Bey (mustafa@penmark.com.tr)**
SAMPLE DESCRIPTION :
Sample 1: Two samples of Red Coloured Penmark Permanent Marker
Sample 2: Two samples of Black Coloured Penmark Permanent Marker
Sample 3: Two samples of Dark Blue Coloured Penmark Permanent Marker
Sample 4: Two samples of Green Coloured Penmark Permanent Marker
DATE IN : 25 May, 2023 (11:24)
DATE OUT : 05 June, 2023
COLOR : 03 / 01 / 02 / 04
MODEL/STYLE NO : HS-406
SAMPLE PICTURES:



Ezgi Aleyna Arı
Senior Customer Care Executive

Zeynep Akın
Chemical Laboratory Manager

Intertek Test Hizmetleri A.Ş.
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R E S U L T S

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Part No	Tested Part
1	Red plastic body (Sample 1)
2	Red plastic cover (Sample 1)
3	Black plastic body (Sample 2)
4	Black plastic cover (Sample 2)
5	Blue plastic body (Sample 3)
6	Blue plastic cover (Sample 3)
7	Green plastic body (Sample 4)
8	Green plastic cover (Sample 4)
9	Multicolor plastic sticker (Sample 1)
10	White felt (Sample 1&2&3&4)
11	White big inner felt (Sample 1&2&3&4)
12	Transparent inner plastic part (Sample 1&2&3&4)
13	Red dye (Sample 1)
14	Black dye (Sample 2)
15	Blue dye (Sample 3)
16	Green dye (Sample 4)
17	Multicolor plastic sticker (Sample 2)
18	Multicolor plastic sticker (Sample 3)
19	Multicolor plastic sticker (Sample 4)

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	Tested Sample
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) ANALYSIS	IHTM AL.2.032 based on AfPS GS 2019:01 determined by GC-MS	P	-	1 ppm	REACH ANNEX XVII	Part 1-10,17-19
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	-	<100 ppm for plastics, <1000 ppm for coatings	REACH Annex XVII	Part 1-9,12-19
DETERMINATION OF LEAD CONTENT	With reference to USEPA 3050B / USEPA 3051 /USEPA 3051A/ US EPA 3052 ,by acid digestion and determined by ICP-OES	P	-	500 ppm (0.05%)	REACH ANNEX XVII	Part 1-19

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

IHTM AL.2.032 based on AfPS GS 2019:01 determined by GC-MS

	Part 1&2&5	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 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&7&8	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 2019:01 determined by GC-MS

	Part 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	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 17	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 2019:01 determined by GC-MS

	Part 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

	Part 19	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/ USEPA 3052 by acid digestion and determined by ICP-OES

	Result	Requirement
Part 1&2&3	Not Detected	<100 ppm (0.01%)
Part 4&5&6	Not Detected	<100 ppm (0.01%)
Part 7&8&12	Not Detected	<100 ppm (0.01%)
Part 9	Not Detected	<100 ppm (0.01%)
Part 13&14	Not Detected	<1000 ppm (0.1%)
Part 15&16	Not Detected	<1000 ppm (0.1%)
Part 17	Not Detected	<100 ppm (0.01%)
Part 18	Not Detected	<100 ppm (0.01%)
Part 19	Not Detected	<100 ppm (0.01%)

ppm (part per million) =mg / kg
Detection Limit =8 ppm
< =Less Than
% =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: $\pm 16\%$, Glass: $\pm 16\%$, Metal: $\pm 16\%$, Plastic: $\pm 16\%$, Textile: $\pm 15\%$)

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DETERMINATION OF TOTAL LEAD CONTENT

With reference to USEPA 3050B / USEPA 3051 /USEPA 3051A/ USEPA 3052 ,by acid digestion and determined by ICP-OES

	Result	Requirement
Part 1&2&3	Not Detected	500 ppm (0.05%)
Part 4&5&6	Not Detected	500 ppm (0.05%)
Part 7&8&12	Not Detected	500 ppm (0.05%)
Part 9	Not Detected	500 ppm (0.05%)
Part 10&11	Not Detected	500 ppm (0.05%)
Part 13&14	Not Detected	500 ppm (0.05%)
Part 15&16	Not Detected	500 ppm (0.05%)
Part 17	Not Detected	500 ppm (0.05%)
Part 18	Not Detected	500 ppm (0.05%)
Part 19	Not Detected	500 ppm (0.05%)

ppm (part per million)
%

=mg / kg

=Percentage based on dry weight of sample

Detection Limit

=8 ppm

Estimated Total Uncertainty

= Dye: ±16%, Glass: ±16%, Metal: ±16%, Plastic: ±16%, Textile: ±15%

END OF TEST REPORT