



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

AB-0716-T
TURT251094966
08-25

## TEST REPORT

Page 1 of 6

**REPORT NUMBER :** TURT251094966  
**APPLICANT NAME :** Bigpoint Kırtasiye San. ve Tic.Ltd.Şti.  
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**Attention :** Efe Yüksel ( efe@bigpoint.com.tr )  
**SAMPLE DESCRIPTION :** Three samples of Blue Mesh pen holder  
**DATE IN / DATE OF TESTING** 18 August 2025 (15:45)  
**RESUBMIT DATE :** 21 August 2025 (14:30)  
**DATE OUT :** 29 August ,2025  
**FIBER COMPOSITION :** Not Given  
**PROVIDED CARE LABEL :** Not Given



Gaye Caliskan  
Customer Care Executive

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251094966

## TEST REPORT

REPORT : TURT251094966

Page 2 of 6

TEST	SAMPLE
	1
Determination Of Bisphenol A (BPA) Content	NA
Determination of Certain Aromatic Amines Derived from Azo Colorants	P
Determination Of Cr+VI Content	NA
Determination Of Diethylene glycol monobutyl (DEGBE) Content	NA
DMFu Content	P
Toluene Content	NA
Tributyltin (TBT) Content	P
Vinyl Chloride Monomer(VCM) Content	NA
Release Of Nickel For Coated Item	P
Determination Of Cadmium Content	P
Determination Of Lead Carbonate / Sulfate Content	NA
Determination Of Lead Content	P
Polycyclic Aromatic Hydrocarbons (PAHs) Analysis	P

**P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE / LS = LACK OF SAMPLE / NC = NO COMMENT / I = INCONCLUSIVE / # = SEE RESULT / NF = NEEDS FURTHER TESTING / A = ABSENT / M = MARGINAL ACCEPT / SD = SEE DETAILS ENCLOSED / FS: FURTHER STEPS / MA = MINIMUM AMOUNT**

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251094966

**R E S U L T S**

REPORT :TURT251094966

DATE IN / DATE OF TESTING : 18 August ,2025 ( 15:45:00)

Page 3 of 6

29 August ,2025

STATIONERY

Test Method	Results	Requirements
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**Determination of Certain Aromatic Amines Derived from Azo Colorants**

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

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

1-Composite sample of Blue textile tape, black zipper tape, blue textile outer main (with extraction)

20 ppm

**RESULTS**

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

**Note:**

- 1)The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluenediamine.
  - 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 ISO 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 ISO 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.
- ppm : part per million (mg/kg) Detection Limit: 5 ppm < = Less Than N: Not Detected NC : No Comment

**Estimated Total Uncertainty=( Textile: ±17% Polyester: ±16%)**

**RESULTS**

REPORT :TURT251094966

DATE IN / DATE OF TESTING : 18 August ,2025 ( 15:45:00)

Page 4 of 6

29 August ,2025

STATIONERY

Test Method	Results	Requirements
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**DMFu Content**

ISO 16186:2021 determined by GC-MS

**Result**

	Result	Requirement
Blue textile tape, black zipper tape, blue textile outer trim	Not Detected	≤1000 ppm (0.1%)
White plastic buckle, black plastic zipper teeth, blue plastic mesh main	Not Detected	≤1000 ppm (0.1%)

DETECTION LIMIT: 0.1 ppm  
ppm:mg/kg

Estimated Total Uncertainty=( Silica gel:±12% Textile:±11% Leather:±15% Polymer:±11%)

**Tributyltin (TBT) Content**

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

White plastic buckle, black plastic zipper teeth, blue plastic mesh main	Result	Requirement
Tributyltin (TBT)	Not Detected	1000 ppm (0.1%)

ppm (part per million) = mg/kg  
Detection Limit = 0.05 ppm  
< = Less Than

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

RESULTS

REPORT :TURT251094966

DATE IN / DATE OF TESTING : 18 August ,2025 ( 15:45:00)

Page 5 of 6  
29 August ,2025  
STATIONERY

Test Method	Results	Requirements
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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>Sample Area (cm2)</u>	<u>Volume Of Test Solution (ml)</u>	<u>Result Δ (µg/cm2/week)</u>
Metal slider	1	4.7	4.7	<0.05*
	2	4.7	4.7	<0.05*
Metal puller	1	5.14	6.14	0.12*
	2	5.14	6.14	0.05*
Metal interconnection	1	1.27	1.27	0.26*
	2	1.27	1.27	0.22*

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

Requirement = <0.88 µg/cm<sup>2</sup>/week (<0.35 µg/cm<sup>2</sup>/week for piercing)

< =Less Than

Detection limit =0.05 µg/cm<sup>2</sup>/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 : 2011+A1:2023, compliance decision was made based on the following rules.

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

Estimated Total Uncertainty=( ±39%)

**Determination Of Cadmium Content**

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

	Result	Requirement
White plastic buckle, black plastic zipper teeth, blue plastic mesh main	Not Detected	100 ppm (0.01%)
Blue textile tape, black zipper tape, blue textile outer main	Not Detected	100 ppm (0.01%)

< = less then ppm: parts per million (mg/kg)

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

**RESULTS**

REPORT :TURT251094966

DATE IN / DATE OF TESTING : 18 August ,2025 ( 15:45:00)

Page 6 of 6  
29 August ,2025  
STATIONERY

Test Method	Results	Requirements
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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-MS or ICP-OES)

	Result	Requirement
Silver metal puller	22 ppm	500 ppm
Silver metal slider	19 ppm	500 ppm
Silver metal interconnection	28 ppm	500 ppm
White plastic buckle, black plastic zipper teeth	Not Detected	500 ppm
Black,red textile label, blue textile tape	Not Detected	500 ppm
Black zipper tape, blue textile outer trim	Not Detected	500 ppm
Blue plastic mesh main	Not Detected	500 ppm

< = less than ppm: parts per million (mg/kg)

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

**Polycyclic Aromatic Hydrocarbons (PAHs) Analysis**

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

White plastic buckle,black plastic zipper teeth,blue plastic mash main	Result	Requirement
BENZO(A)PYRENE	Not Detected	1 ppm
BENZO(E)PYRENE	Not Detected	1 ppm
BENZ(A)ANTHRACENE	Not Detected	1 ppm
BENZO( B )FLUORANTHENE	Not Detected	1 ppm
BENZO(J)FLUORANTHENE	Not Detected	1 ppm
BENZO(K)FLUORANTHENE	Not Detected	1 ppm
CHRYSENE	Not Detected	1 ppm
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:±16%)**