

# TEST REPORT

No.:ED171009949C

Date: October 13, 2017

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**Applicant** :  
**Address** :  
**Sample Name** : Safety phone case with signal blocking  
**Style/Item No.** : P820.531, CB179001  
**Sample Received Date** : October 09, 2017  
**Testing Completed Date** : October 13, 2017  
**Test Requested** : 1. As requested by client, according to the directive 2011/65/EU (RoHS) and amendment directive 2015/863/EU, to determine the content of Lead in the submitted sample.  
2. As requested by client, according to AfPS GS 2014:01 PAK, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) in the submitted sample.  
**Test Results** : Please refer to next page(s).

## Executive Summary:

STANDARD	CONCLUSION
1. Directive 2011/65/EU (RoHS) and amendment directive 2015/863/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Lead content	PASS
2. AfPS GS 2014:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs) Requirement	PASS

Signed for and on behalf of  
EMTEK (Dongguan) Co., Ltd.

Prepared by: Cherry  
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Report Engineer

Reviewed by: Carrie  
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## Test Results:

### 1. Lead content

Test Method: To refer to IEC 62321-5:2013, the analyses were performed by ICP-OES.

Test Item	Result (mg/kg)				Reporting Limit (mg/kg)	Law Limit (mg/kg)
	1	2	3	4		
Lead (Pb)	ND	ND	ND	ND	2	1000

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Law Limit (mg/kg)
	5	6	7		
Lead (Pb)	ND	ND	ND	2	1000

Note: mg/kg = part per million = ppm ND = Not Detected (Less than reporting limit value.)

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## Test Results:

### 2. AfPS GS 2014:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: To refer to AfPS GS 2014:01 PAK, the analysis was performed by GC / MS.

Test Item	CAS Number	Result (mg/kg)				Reporting Limit (mg/kg)
		1	2	3	4	
Benzo[a]pyrene(BaP)	50-32-8	ND	ND	ND	ND	0.2
Benzo[e]pyren(BeP)	192-97-2	ND	ND	ND	ND	0.2
Benzo[a]anthracene(BaA)	56-55-3	ND	ND	ND	ND	0.2
Benzo[b]fluoranthene(BbF)	205-99-2	ND	ND	ND	ND	0.2
Benzo[j]fluoranthene(BjF)	205-82-3	ND	ND	ND	ND	0.2
Benzo[k]fluoranthene(BkF)	207-08-9	ND	ND	ND	ND	0.2
Chrysene(CHR)	218-01-9	ND	ND	ND	ND	0.2
Dibenzo[a,h]anthracene(DBA)	53-70-3	ND	ND	ND	ND	0.2
Benzo[g,h,i]perylene(BPE)	191-24-2	ND	ND	ND	ND	0.2
Indeno[1,2,3-cd]pyrene(IPY)	193-39-5	ND	ND	ND	ND	0.2
Acenaphthylene(ANY)	208-96-8	ND	ND	ND	ND	0.2
Acenaphthene(ANA)	83-32-9	ND	ND	ND	ND	0.2
Fluorene(FLU)	86-73-7	ND	ND	ND	ND	0.2
Phenanthrene(PHE)	85-01-8	ND	ND	ND	ND	0.2
Pyrene(PYR)	129-00-0	ND	ND	ND	ND	0.2
Anthracene(ANT)	120-12-7	ND	ND	ND	ND	0.2
Fluoran-thene(FLT)	206-44-0	ND	ND	ND	ND	0.2
Sum# of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-----	ND	ND	ND	ND	-----
Naphthalene(NAP)	91-20-3	ND	ND	ND	ND	0.2
Total of above PAHs (sum)#	-----	ND	ND	ND	ND	-----

Note: 1. mg/kg = part per million = ppm ND = Not Detected (less than Reporting limit)

2. “#” = Only those PAH components which present in the material over the 0.2 mg/kg are taken into account while calculating the sum of PAHs
3. All the materials tested belong to category 1 by identifying.

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## Appendix

Limit of PAH content according to AfPS GS 2014:01 PAK.

Parameter	Category 1  Materials intended to be put in the mouth, or materials in toys intended and with long-term skin contact (longer than 30s)	Category 2  Materials not covered by category 1, with predictable skin contact longer than 30 seconds(long-term skin contact) or repeated short-term skin contact*		Category 3  Materials not fall in category 1 or 2 with predictable skin contact up to 30s(short-term skin contact)	
		Toys by Directive 2009/48/EC	Other products by ProdSG	Toys by Directive 2009/48/EC	Other products by ProdSG
Benzo[a]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyren (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-cd]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene (mg/kg)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (mg/kg)	< 1	< 2		< 10	
Sum 18 PAHs (mg/kg)	< 1	< 5	< 10	< 20	< 50

Remark: \* Phrase "short-term repeated skin contact" from REACH Annex XVII No. 50 supplement (REGULATION (EU) No.1272 / 2013)

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## Tested Materials:

No.	Description
1	Black / white overlap coating on fabric (sewn label)
2	Black waterproof fabric with white printing (shell fabric)
3	Black hard plastic (hook of velcro)
4	Black soft plastic (loop of velcro)
5	Gold fabric (lining)
6	Black fabric (binding)
7	White fabric except coating (sewn label)

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### Photo Appendix



\* \* \* \* \* The End \* \* \* \* \*

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