



# Test Report

Report No.: HLF18009224E

Date: Sep 28, 2018

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Applicant :

Address :

**The following sample(s) and sample information was/were submitted and identified by/on behalf of the client**

Sample Name : Smart Bracelet

Sample Model : WB07, WB07B,C07PLUS

Sample Lot : /

Sample Received Date : Sep 19, 2018

Test Completed Date : Sep 28, 2018

Test Requested : As specified by client, to determine the content of the PAHs and Nickel release in the submitted samples.

Test Method : Refer to the next page(s).

Test Results : Refer to the next page(s).

Reviewed by:

Lab Senior Engineer

Authorized Signature:

Technology Manager

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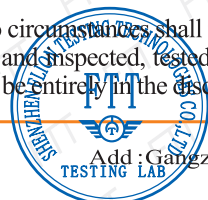
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## PAHs Test Results:

Test Item	CAS No.	Test Method / Instrument	MDL (mg/kg)
Acenaphthylene(ANY)	208-96-8	AfPS GS 2014:01 PAK/GC-MS	0.1
Acenaphthene(ANA)	83-32-9	AfPS GS 2014:01 PAK/GC-MS	0.1
Fluorene(FLU)	86-73-7	AfPS GS 2014:01 PAK/GC-MS	0.1
Phenanthrene(PHE)	85-01-8	AfPS GS 2014:01 PAK/GC-MS	0.1
Anthracene(ANT)	120-12-7	AfPS GS 2014:01 PAK/GC-MS	0.1
Fluoranthene(FLT)	206-44-0	AfPS GS 2014:01 PAK/GC-MS	0.1
Pyrene(PYR)	129-00-0	AfPS GS 2014:01 PAK/GC-MS	0.1
Naphthalene(NAP)	91-20-3	AfPS GS 2014:01 PAK/GC-MS	0.1
Benzo(a)anthracene(BaA)	56-55-3	AfPS GS 2014:01 PAK/GC-MS	0.1
Chrysene(CHR)	218-01-9	AfPS GS 2014:01 PAK/GC-MS	0.1
Benzo(b)fluoranthene(BbF)	205-99-2	AfPS GS 2014:01 PAK/GC-MS	0.1
Benzo(j)fluoranthene(BjF)	205-82-3	AfPS GS 2014:01 PAK/GC-MS	0.1
Benzo(k)fluoranthene(BkF)	207-08-9	AfPS GS 2014:01 PAK/GC-MS	0.1
Benzo(a)pyrene(BaP)	50-32-8	AfPS GS 2014:01 PAK/GC-MS	0.1
Benzo(e)pyrene(BeP)	192-97-2	AfPS GS 2014:01 PAK/GC-MS	0.1
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	AfPS GS 2014:01 PAK/GC-MS	0.1
Dibenzo(a,h)anthracene(DBA)	53-70-3	AfPS GS 2014:01 PAK/GC-MS	0.1
Benzo(g,h,i)perylene(BPE)	191-24-2	AfPS GS 2014:01 PAK/GC-MS	0.1

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Test Item	Result (mg/kg)				
	1	2	3	4	5
Acenaphthylene(ANY)	N.D.	N.D.	N.D.	N.D.	N.D.
Acenaphthene(ANA)	N.D.	N.D.	N.D.	N.D.	N.D.
Fluorene(FLU)	N.D.	N.D.	N.D.	N.D.	N.D.
Phenanthrene(PHE)	N.D.	N.D.	N.D.	N.D.	N.D.
Anthracene(ANT)	N.D.	N.D.	N.D.	N.D.	N.D.
Fluoranthene(FLT)	N.D.	N.D.	N.D.	N.D.	N.D.
Pyrene(PYR)	N.D.	N.D.	N.D.	N.D.	N.D.
Naphthalene(NAP)	N.D.	N.D.	N.D.	N.D.	N.D.
Benzo(a)anthracene(BaA)	N.D.	N.D.	N.D.	N.D.	N.D.
Chrysene(CHR)	N.D.	N.D.	N.D.	N.D.	N.D.
Benzo(b)fluoranthene(BbF)	N.D.	N.D.	N.D.	N.D.	N.D.
Benzo(j)fluoranthene(BjF)	N.D.	N.D.	N.D.	N.D.	N.D.
Benzo(k)fluoranthene(BkF)	N.D.	N.D.	N.D.	N.D.	N.D.
Benzo(a)pyrene(BaP)	N.D.	N.D.	N.D.	N.D.	N.D.
Benzo(e)pyrene(BeP)	N.D.	N.D.	N.D.	N.D.	N.D.
Indeno(1,2,3-c,d)pyrene(IPY)	N.D.	N.D.	N.D.	N.D.	N.D.
Dibenzo(a,h)anthracene(DBA)	N.D.	N.D.	N.D.	N.D.	N.D.
Benzo(g,h,i)perylene(BPE)	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of 18 PAHs	N.D.	N.D.	N.D.	N.D.	N.D.

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## AfPS(German commission for Product Safety):GS PAHs requirements

Parameter (mg/kg)	Category 1	Category 2		Category 3	
	Material intended to be put in the mouth or toys with intended skin contact(longer than 30 s)	Materials not falling under Category 1 with foreseeable contact to skin for longer than 30s (long-term skin) or frequent contact		Materials not falling under Category 1 or 2,with foreseeable contact to skin for less than to 30s (short-term skin contact)	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene(BaP)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)pyrene(BeP)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)anthracene (BaA)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)fluoranthene (BbF)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)fluoranthene (BjF)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)fluoranthene (BkF)	<0.2	<0.2	<0.5	<0.5	<1
Chrysene(CHR)	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)anthracene (DBA)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(g,h,i)perylene (BPE)	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-c,d)pyrene (IPY)	<0.2	<0.2	<0.5	<0.5	<1
Naphthalene(NAP)	<1	<2		<10	
Acenaphthylene(ANY) Acenaphthene(ANA) Fluorene(FLU) Phenanthrene(PHE) Anthracene(ANT) Fluoranthene(FLT) Pyrene(PYR)	<1 (Sum)	<5 (Sum)	<10 (Sum)	<20 (Sum)	<50 (Sum)
Sum of 18 PAHs	<1	<5	<10	<20	<50

Note:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) N.D. = Not Detected (less than MDL)
- (3) MDL = Method Detection Limit

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## Nickel Release Test

Test Method: With reference to EN 1811:2011. Analysis was performed by ICP-AES.

Test Item	Unit	MDL	Result	Limit
			6	
Nickel Release	$\mu\text{g}/\text{cm}^2/\text{week}$	0.1	N.D.	0.5

Note:

1.  $\mu\text{g}/\text{cm}^2/\text{week}$  = microgram per square centimeter per week
2. N.D.=Not detected(Less than MDL)
3. MDL=Method detection limit

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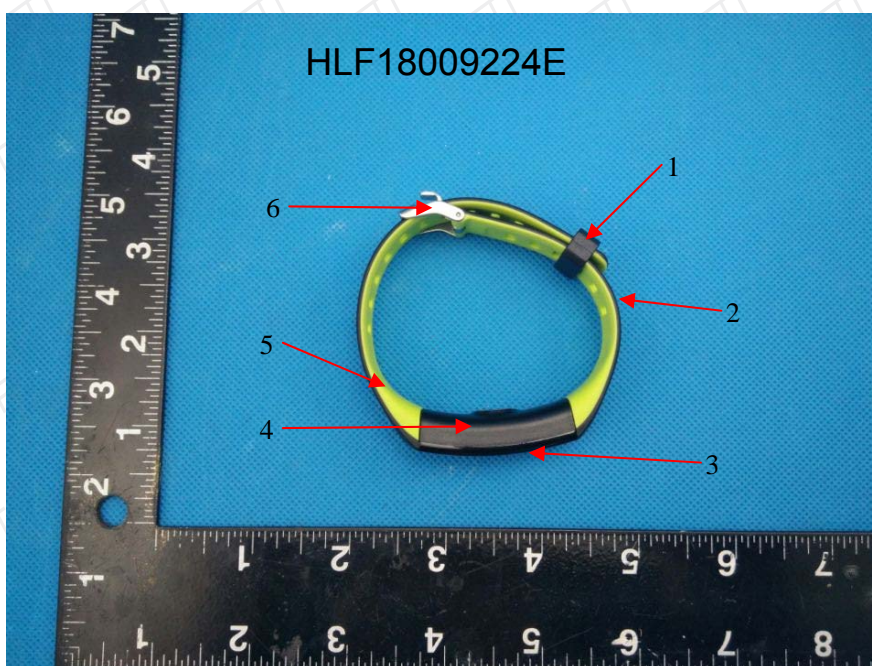
Date: Sep 28, 2018

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## Test Part Description:

- 1: Black rubber
- 2: Black silicone
- 3: Black plastic
- 4: Black plastic
- 5: Green silicone
- 6: metal

## Sample Photo



Note: The results shown in this report refer only to the sample(s) tested.

\*\*\*\*\* End of Report \*\*\*\*\*

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