Dated 2018-08-06



Technical Report

Applicant: SHANGHAI HAIFENG ELECTRICAL LIGHTING CO., LTD

No.33, Luda RD, Liuzao Town, Pudong New Area

201322 SHANGHAI

PEOPLE'S REPUBLIC OF CHINA

Attn: **Huang Jilong**

Manufacturer: SHANGHAI HAIFENG ELECTRICAL LIGHTING CO., LTD

Refer to Page 3~6 Test subject:

Test specification: Content of 18 PAHs (Polycyclic Aromatic Hydrocarbons)

Test with reference to AfPS GS 2014:01 PAK

Test result: Refer to Page 7~10

Conclusion: **PAHs Content Pass**

Remarks: 1. The result relates only to the items tested

Samples were tested as received

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Shanghai Chemical Lab

No. 1999 Du Hui Road

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1. Order

Date of Purchase Order 1.1

> 2018-02-09 2018-04-02

1.2 **Customer's Reference**

1.3 **Receipt Date of Test Sample**

2018-02-11

1.4 **Date of Testing**

2018-02-11~2018-02-24

1.5 **Document submitted**

Nil

1.6 **Location of Testing**

TÜV PS SHA

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2. Description of the tested subject

No.	Tested sample	Picture
001	block,plastic,white	
002	block,plastic,white	OF-
003	cover,plastic,transparent	

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No.	Tested sample	Picture
004	block,plastic,white	
005	shell,silvery	
006	shell,plastic,black	

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China

No.	Tested sample	Picture
007	block,plastic,white	4 5 6 7 8 91201 2 3 4 5 6 7 8 91 11
008	coating,silvery	3 5 7 2 3 20 1 2 3 4 3 3 2 3 2 3 2 3 1 2 3 4 5 4 7 5
009	coating,silvery	J 4 3 7 8 9 7 2 1 1 3 2 2 1 1 3 3 1 1 2 3 1 2 3

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China

No.	Tested sample	Picture
010	coating,golden	
011	coating,silvery	20124333333333333

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Test Results Content of 18 PAHs (Polycyclic Aromatic Hydrocarbons)

According to AfPS GS 2014:01 PAK, Evaluation of PAHs for GS-Certification.

Parameter	CAS No.	Unit	MDL	001+002+007	003+004+006
Naphthalene	91-20-3	mg/kg	0.1	0.2	0.3
Acenaphthylene*	208-96-8	mg/kg	0.1	ND	ND
Acenaphthene*	83-32-9	mg/kg	0.1	ND	ND
Fluorene*	86-73-7	mg/kg	0.1	ND	ND
Phenanthrene*	85-01-8	mg/kg	0.1	0.1	0.2
Anthracene*	120-12-7	mg/kg	0.1	ND	ND
Fluoranthene*	206-44-0	mg/kg	0.1	ND	ND
Pyrene*	129-00-0	mg/kg	0.1	0.1	0.2
Chrysene	218-01-9	mg/kg	0.1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	ND	ND
Indeno [1,2,3-c,d] pyrene	193-39-5	mg/kg	0.1	ND	ND
Dibenzo [a,h] anthracene	53-70-3	mg/kg	0.1	ND	ND
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.1	ND	ND
Sum of 7 marked PAHs*		mg/kg		0.2	0.4
Sum of 18 listed PAHs		mg/kg		0.4	0.7
C					
	PASS	PASS			
	PASS	PASS			

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Parameter	CAS No.	Unit	MDL	005	800
Naphthalene	91-20-3	mg/kg	0.1	0.1	ND
Acenaphthylene*	208-96-8	mg/kg	0.1	ND	ND
Acenaphthene*	83-32-9	mg/kg	0.1	ND	ND
Fluorene*	86-73-7	mg/kg	0.1	ND	ND
Phenanthrene*	85-01-8	mg/kg	0.1	ND	ND
Anthracene*	120-12-7	mg/kg	0.1	ND	ND
Fluoranthene*	206-44-0	mg/kg	0.1	ND	ND
Pyrene*	129-00-0	mg/kg	0.1	0.2	ND
Chrysene	218-01-9	mg/kg	0.1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	ND	ND
Indeno [1,2,3-c,d] pyrene	193-39-5	mg/kg	0.1	ND	ND
Dibenzo [a,h] anthracene	53-70-3	mg/kg	0.1	ND	ND
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.1	ND	ND
Sum of 7 marked PAHs*		mg/kg		0.2	ND
Sum of 18 listed PAHs		mg/kg		0.3	ND
С					
(PASS	PASS			
(PASS	PASS			

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Parameter	CAS No.	Unit	MDL	009	010	011
Naphthalene	91-20-3	mg/kg	0.1	0.3	0.2	ND
Acenaphthylene*	208-96-8	mg/kg	0.1	ND	ND	ND
Acenaphthene*	83-32-9	mg/kg	0.1	ND	ND	ND
Fluorene*	86-73-7	mg/kg	0.1	ND	ND	ND
Phenanthrene*	85-01-8	mg/kg	0.1	ND	ND	ND
Anthracene*	120-12-7	mg/kg	0.1	ND	ND	ND
Fluoranthene*	206-44-0	mg/kg	0.1	ND	ND	ND
Pyrene*	129-00-0	mg/kg	0.1	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.1	ND	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	ND	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	ND	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	ND	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	ND	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	ND	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	ND	ND	ND
Indeno [1,2,3-c,d] pyrene	193-39-5	mg/kg	0.1	ND	ND	ND
Dibenzo [a,h] anthracene	53-70-3	mg/kg	0.1	ND	ND	ND
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.1	ND	ND	ND
Sum of 7 marked PAHs*		mg/kg		ND	ND	ND
Sum of 18 listed PAHs		mg/kg		0.3	0.2	ND
Conclusion:						
Category 2				PASS	PASS	PASS
Category 3				PASS	PASS	PASS

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Remark:

Limit according to AfPS GS 2014:01 PAK

_		Category 2	Category 3	
Parameters	Unit	With foreseeable skin contact for longer than 30 s (long-term skin contact) or repeated short term skin contact	With foreseeable skin contact up to 30 s (short term skin contact)	
		Products acc to ProdSG except toys	Products acc to ProdSG except toys	
Benzo[a]pyrene	mg/kg	<0.5	<1	
Benzo[e]pyrene	mg/kg	<0.5	<1	
Benzo[a]anthracene	mg/kg	<0.5	<1	
Benzo[b]fluoranthene	mg/kg	<0.5	<1	
Benzo[j]fluoranthene	mg/kg	<0.5	<1	
Benzo[k]fluoranthene	mg/kg	<0.5	<1	
Chrysene	mg/kg	<0.5	<1	
Dibenzo[a,h]anthracene	mg/kg	<0.5	<1	
Benzo[ghi]perylene	mg/kg	<0.5	<1	
Indeno[1,2,3-cd]pyrene	mg/kg	<0.5	<1	
Acenaphthylene	mg/kg			
Acenaphthene	mg/kg			
Fluorene	mg/kg			
Phenanthrene	mg/kg	Sum <10	Sum <50	
Pyrene	mg/kg			
Anthracene	mg/kg			
Fluoranthene	mg/kg			
Naphthalene	mg/kg	<2	<10	
Sum 18 PAK	mg/kg	<10	<50	

2. MDL= Method Detection Limit; ND = Not Detected (<MDL); mg/kg = milligram per kilogram

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TÜV SÜD Certification and Testing (China) Co.,Ltd. Shanghai Branch Chemical Lab

Engineer

Qi Nannan

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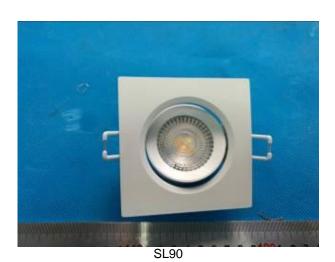
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APPENDIX I: Product photos



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APPENDIX II: Additional Style.

The client declared that the materials used of below styles are same as tested style SL90.



Remark:

- 1. The report covers material testing on specified samples
- 2. The tested materials covered by the report were declared by the manufacturer to be used on the models listed in the APPENDIX

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