LedLink
Linking LEDs to The Real World

LED Lamp Module

A60 F0 type module

- **Maximum up to 7W**
- **CREE LEDs**
- **E26 and E27 lamp base**
- **UL plastic material**

The lamp base can be compatible to either E26 or E27 standard base.
The Heat dissipation of A60 F0 type module heat sink can be up to maximum 7 wattage.
A60 F0 type module uses UL listed material for all the plastic components.
A60 F0 type module will be the best solution for bulb lamp.

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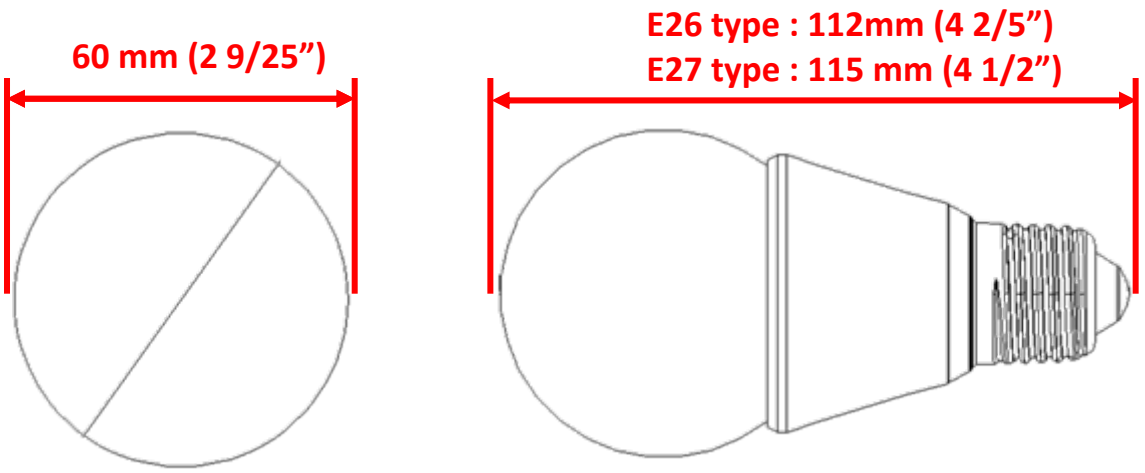
Specifications

Module Name	A60 F0 type module	
With the use of LED	CREE CXA1512	
Rating Power	Maximum up to 7 Wattage	
LED Quantity	1pcs	
LED Dispose Mode	1S	
Lens efficiency	80%	
Lamp holder	E26 type	E27 type
Exterior Dimension	60*112 mm	60*115mm
Beam Angle	270 deg.	
Operate Temperature	-20℃~+50℃	
Storage Temperature	-20℃~+50℃	

Table 1 : The specifications for A60 F0 type.

Exterior Dimension



Tolerance : 2.5 mm (1/10”)

Figure 1 : The exterior dimension for A60 F0 type module.

Nomenclature

M A60F0 B E27 – L B7 01 – BAG 00

X1 X2 X3 X4 X5 X6 X7 X8 X9

X1 Company Code	X2 Product Series Type	X3 Exterior Color	X4 Lamp Holder
M : Ledlink Module	A60F0 : A60F0 type	W : White B : Black	E26 : E26 type E27 : E27 type

X5 Lens type	X6 Beam Angle	X7 Lens Quantity	X8 Lens Number	X9 Package
L : Lampshade	B7 : 270 degrees	01: Single	BAG:BAG model	00 : series number

Figure 2 : The nomenclature for A60 F0 type module.

Part Number

Part Number	Lamp Holder	Heat sink Material	Plastic Material	Plastic Color	Cover color
MA60F0BE26-LB701-BAG00	E26 type	ADC 12 + Anodized	UL approval Plastic*	Black	
MA60F0WE26-LB701-BAG00				White	
MA60F0BE27-LB701-BAG00	E27 type			Black	
MA60F0WE27-LB701-BAG00				White	

* : Please refer to ” reference information ” in page 11 ~ 15.

Table 2 : The part number for A60 F0 type.

The circuit design reference

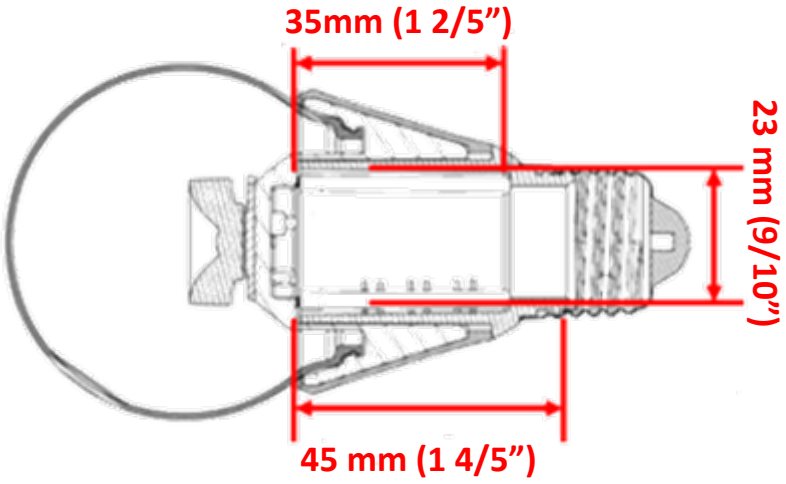


Figure 3 : The maximum size of the circuit area for A60 F0 type module.

Notification : A60 F0 type module doesn't include the circuit part

Life Time

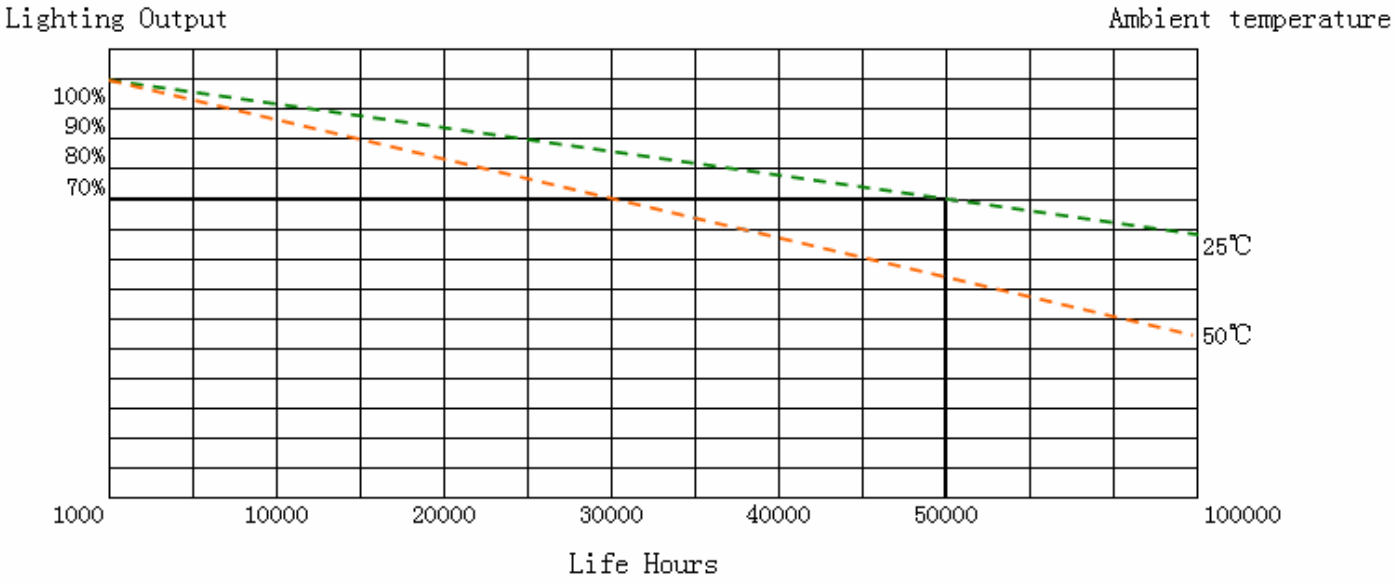
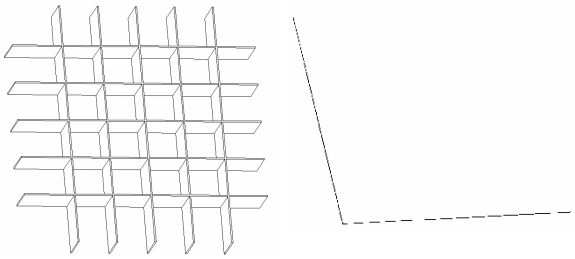


Figure 4: Lighting Output & Life Hours

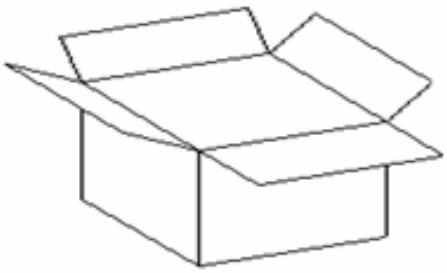
Package information

Lamp shade part :

Lamp shade



Put Mode:
1PCS*36=36pcs



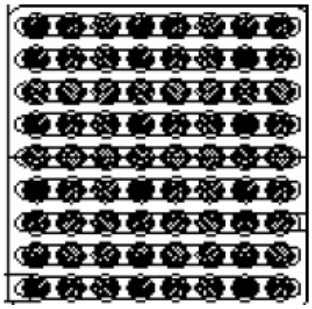
Inner Box:
36PCS*6=216pcs

Figure 5: The package information forLamp shade part.

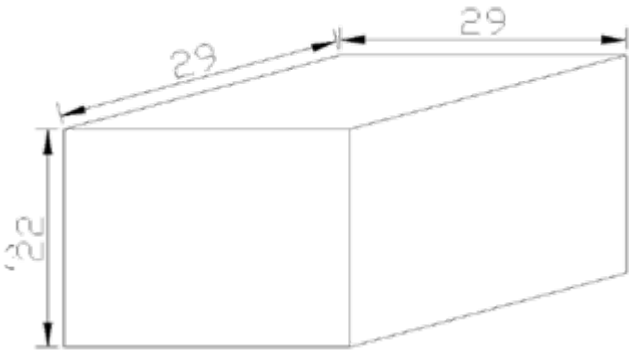
Package information

Lens part :

Lens



Put Mode:
8PCS*9=72pcs



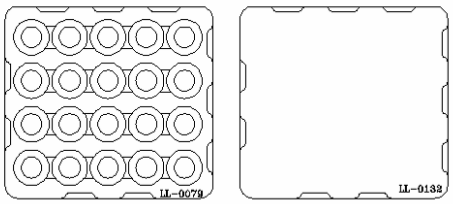
Inner Box:
72PCS*12=864pcs

Figure 5: The package information for Lens part.

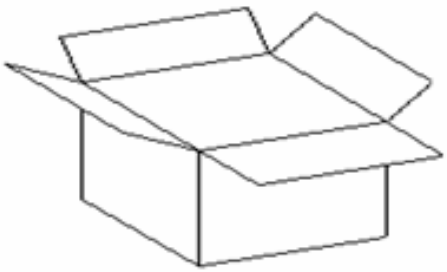
Package information

Heat sink part :

Heat sink



Put Mode:
20pcs



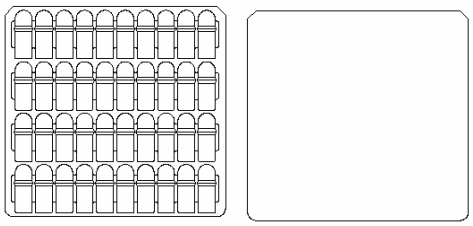
Inner Box:
20*3=60pcs

Figure 6 : The package information for heat sink part.

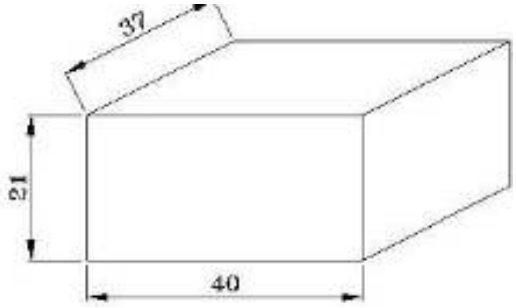
Package information

Lamp base part :

Lamp Base



Put Mode:
1*40=40pcs



Inner Box:
40*6 Tier=240pcs

Figure 7 : The package information for lamp base part..

Reference information

The UL card of UL plastic material :

Component - Plastics E135714

NYTEX COMPOSITES CO LTD

6 LANE 468 CHANGSUI RD, SEC 4, PEITOU HSIANG CHANGHUA HSIEN 523 TW

CM-5000

Polyamide 66/6 (PA66/6), blend, mineral fiber, flame retardant, furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
BK	1.6	V-0	2	1	65	65	65
	3.2	V-0	1	1	65	65	65

Comparative Tracking Index (CTI): -
Dielectric Strength (kV/mm): -
High-Voltage Arc Tracking Rate (HVTR): -
Dimensional Stability (%): -
Inclined Plane Tracking (IPT): -
Volume Resistivity (10* ohm-cm) : -
High Volt, Low Current Arc Resis (D495): -

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2013-03-19
Last Revised: 2013-03-19

IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	1.6	V-0 (BK)
			3.2	V-0 (BK)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m²	-	-
ISO Izod Impact	ISO 180	kJ/m²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m²	-	-

Figure8 : The UL card information of the sink part.

Reference information

The UL card of UL plastic material :

Component - Plastics E206114

STYRON (HONG KONG) LTD

TSING YI R & D LABORATORY, 40-50 TSING YI RD, TSING YI ISLAND N T HK

EMERGE PC 8130-(i)(f1)

Polycarbonate (PC), "EMERGE", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	1.5	V-0	2	1	130	115	130
	3.0	V-0,5VA	2	1	130	115	130

Comparative Tracking Index (CTI): 2
Inclined Plane Tracking (IPT): -
Dielectric Strength (kV/mm): -
Volume Resistivity (10^X ohm-cm) : -
High-Voltage Arc Tracking Rate (HVTR): 1
High Volt, Low Current Arc Resis (D495): 7
Dimensional Stability (%): -

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(i) - Followed by suffix numbers 3-15 incl. indicating melt flow rate

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Report Date: 2011-07-12
Last Revised: 2013-08-30

IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10, IEC 60695-11-20	Class (color)	1.5	V-0 (ALL)
			3.0	V-0,5VA (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	3.0	137
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

Figure 9 : The UL card information of the Lamp shade part.

Reference information

The UL card of UL plastic material :

Component - Plastics E48268

IDEMITSU KOSAN CO LTD

BASIC CHEMICALS DEPT, 1-1 ANESAKI-KAIGAN, ICHIHARA-SHI CHIBA-KEN 299-0193 JP

LEV1700

Polycarbonate (PC), furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC	0.42-1.9	V-2	-	-	80	80	80

Comparative Tracking Index (CTI): -
High-Voltage Arc Tracking Rate (HVTR): -
Dielectric Strength (kV/mm): -
Dimensional Stability (%): -
High Volt, Low Current Arc Resis (D495): -
Volume Resistivity (10^x ohm-cm) : -

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2010-04-06
Last Revised: 2010-04-06

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.42-1.9	V-2 (NC)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

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Figure 10 : The UL card information of the lens part.

Reference information

The UL card of UL plastic material :

Component - Plastics E48268

IDEMITSU KOSAN CO LTD
1-1 MARUNOUCHI 3-CHOME, CHIYODA-KU, TOKYO 100-0005 JP

URC2500
Polycarbonate (PC), furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
WT	1.5	V-0	-	-	80	80	80
	3.0	V-0	-	-	80	80	80

Comparative Tracking Index (CTI): -
Dimensional Stability (%): -
High-Voltage Arc Tracking Rate (HVTR): -
High Volt, Low Current Arc Resis (D495): -
Dielectric Strength (kV/mm): -
Volume Resistivity (10^X ohm-cm) : -

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

Report Date: 2006-09-18
Last Revised: 2006-09-18
Underwriters Laboratories Inc®

IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
IEC Flammability	IEC 60695-11-10	Class (color)	1.5	V-0 (WT)
			3.0	V-0 (WT)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

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Figure 11 : The UL card information of the lamp base part.(White）

Reference information

The UL card of UL plastic material :

Component - Plastics E48268

IDEMITSU KOSAN CO LTD

1-1 MARUNOUCHI 3-CHOME, CHIYODA-KU, TOKYO 100-0005 JP

LE1700

Polycarbonate (PC), furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC	0.45-0.50	V-2	-	-	80	80	80
	1.5	-	3	3	80	80	80

Comparative Tracking Index (CTI): -
Dielectric Strength (kV/mm): -
High-Voltage Arc Tracking Rate (HVTR): -
Dimensional Stability (%): -
Inclined Plane Tracking (IPT): -
Volume Resistivity (10^x ohm-cm) : -
High Volt, Low Current Arc Resis (D495): -

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2000-03-31
Last Revised: 2009-03-30

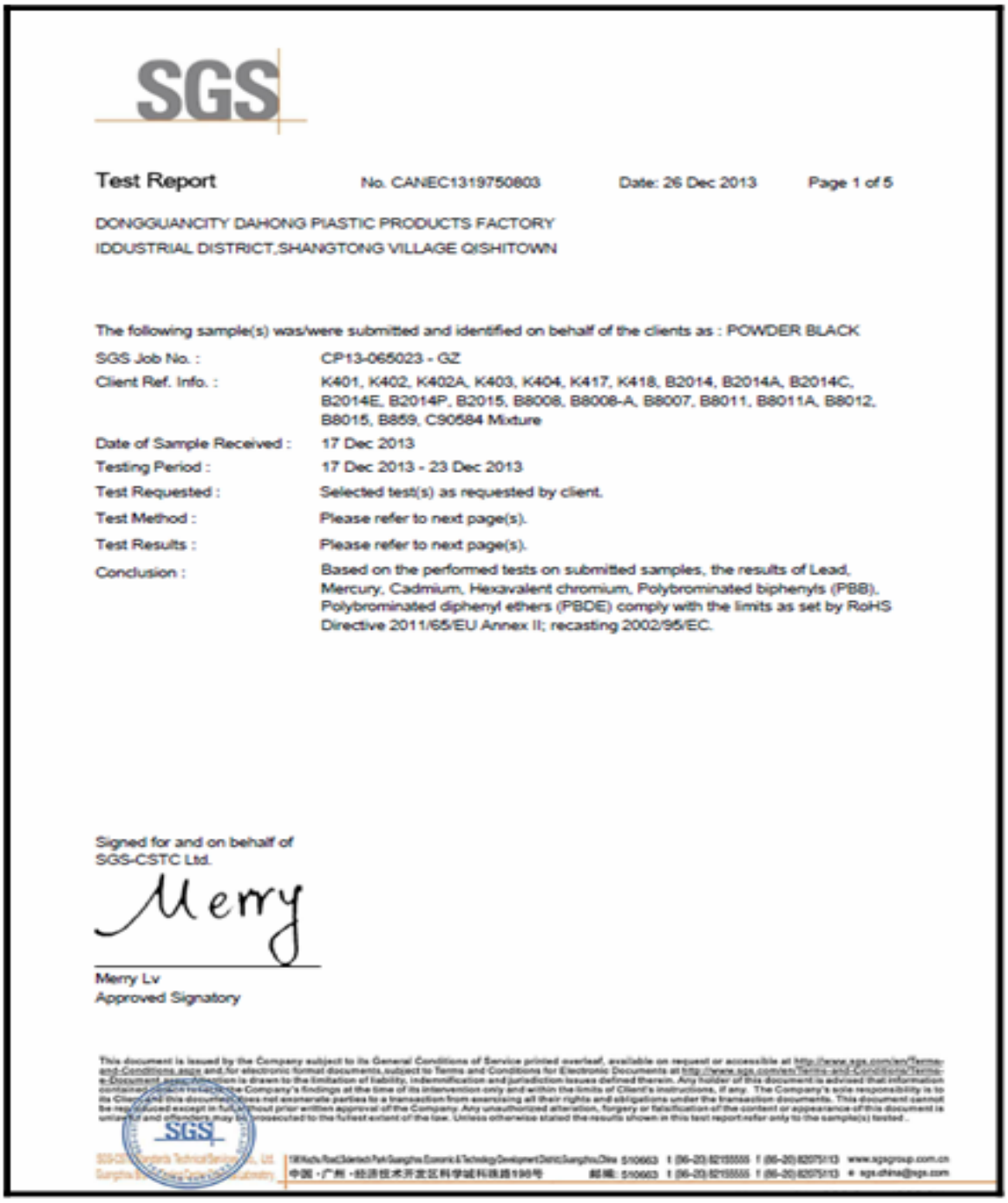
IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.45-0.50	V-2 (HC)
			1.5	- (HC)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

Figure 12 : The UL card information of the lamp base part.(Black)

Reference information

The SGS card of SGS plastic material :



SGS

Test Report No. CANEC1319750803 Date: 26 Dec 2013 Page 1 of 5

DONGGUANCITY DAHONG PIASTIC PRODUCTS FACTORY
IDDUSTRIAL DISTRICT,SHANGTONG VILLAGE QISHITOWN

The following sample(s) was/were submitted and identified on behalf of the clients as : POWDER BLACK

SGS Job No. :	CP13-065023 - GZ
Client Ref. Info. :	K401, K402, K402A, K403, K404, K417, K418, B2014, B2014A, B2014C, B2014E, B2014P, B2015, B8008, B8008-A, B8007, B8011, B8011A, B8012, B8015, B859, C90584 Mixture
Date of Sample Received :	17 Dec 2013
Testing Period :	17 Dec 2013 - 23 Dec 2013
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.

Merry

Merry Lv
Approved Signatory

SGS

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

Figure 13 : The SGS card information of the lamp base part.(Black)

Reference information

The SGS card of SGS plastic material :

SGS

Test Report No. CANEC1319750803 Date: 26 Dec 2013 Page 2 of 5

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN13-197508.003	Black powder

Remarks :

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
(5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	003
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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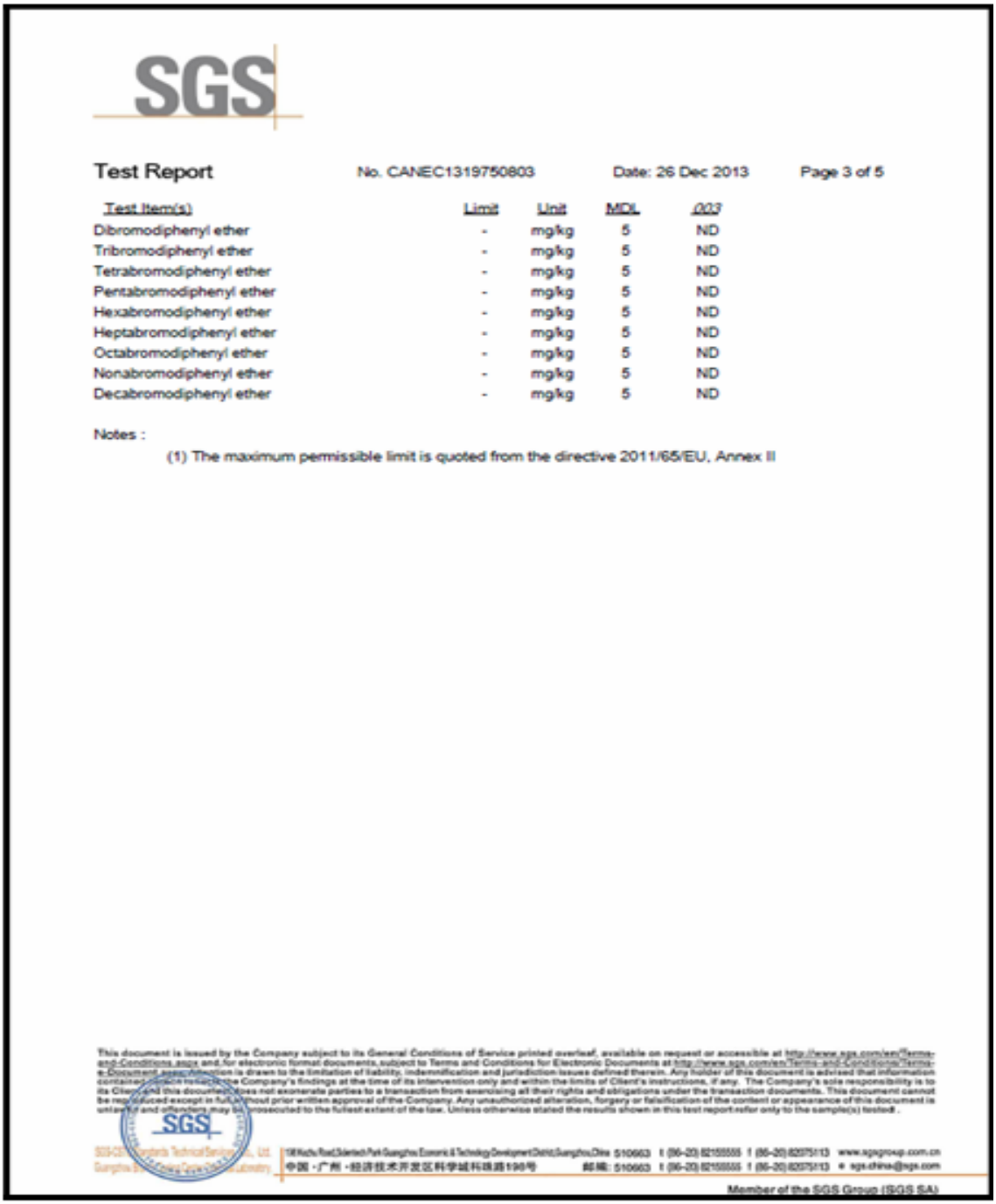
Member of the SGS Group (SGS SA)

Figure 14 : The SGS card information of the lamp base part.(Black)

Reference information

The SGS card of SGS plastic material :



SGS

Test Report No. CANEC1319750803 Date: 26 Dec 2013 Page 3 of 5

Test Item(s)	Limit	Unit	MDL	003
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II

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Figure 15 : The SGS card information of the lamp base part.(Black)

Reference information

The SGS card of SGS plastic material :

SGS

Test Report No. CANEC1319750803 Date: 26 Dec 2013 Page 4 of 5

ATTACHMENTS

RoHS Testing Flow Chart

1) Name of the person who made testing: Michael Tso / Cutey Yu
2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr^{6+} and PBBs/PBDEs test method excluded).

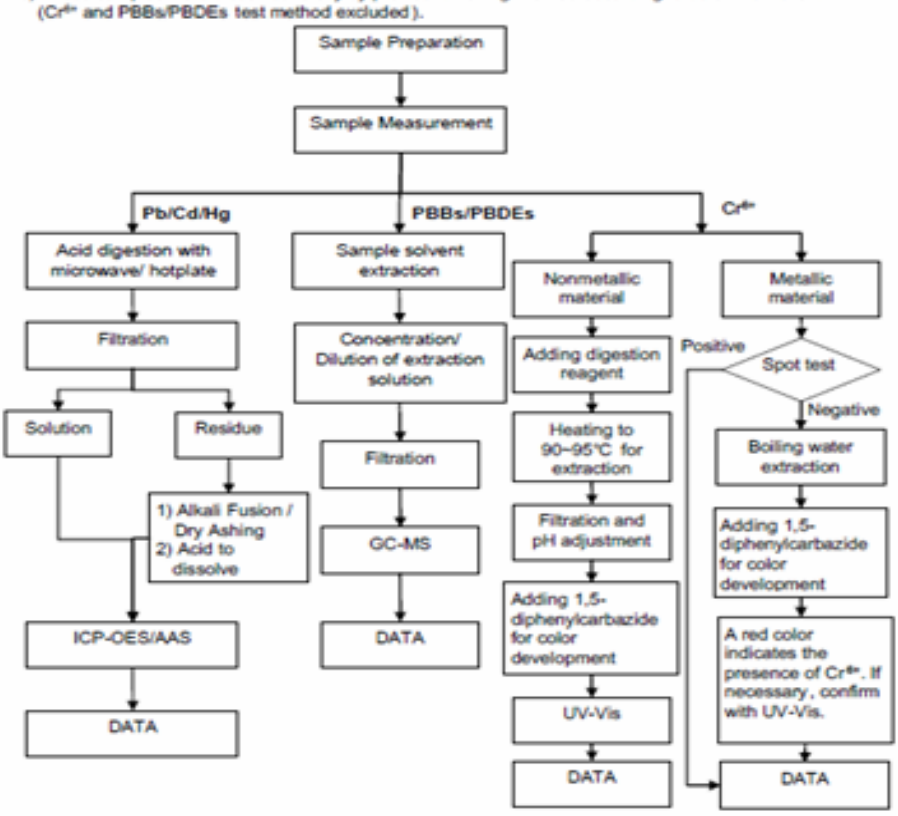

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Figure 16 : The SGS card information of the lamp base part.(Black)

Reference information

The SGS card of SGS plastic material :

SGS

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Sample photo:

CAN13-197508.003

SGS authenticate the photo on original report only

*** End of Report ***

Figure 17: The SGS card information of the lamp base part.(Black)

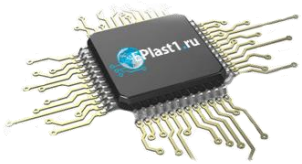
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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