

BOM FOR UL CERTIFICATE NUMBER								
Model Name:		CLASSIC TOWER LIGHT			Documents Number		122-EI04	
This is to certify that the above product was supplied to SUZO Internation (NL) BV are made of the followings, and It was manufactured in our company,UL assigned code designation.					Revision		A2	
					Date		13-okt-07	
ITEM	PART NO	CLIENT REF. NO.	DESCRIPTION	DESIGNATION	MATERIAL MANUFACTURER	FLAME CLASS	UL FILE NO.	
			PLASTIC PARTS:-					
1	RP000-122-00		LENS 51M/M	PMMA #80N	ASAHI KASEI CHEMICALS	94-HB	E48285	
	RP000-137-00		LENS 30mm					
2	RP090-122-15A		PLATFORM-A (BLACK)	ABS #HF-0660I	CHEIL INDUSTRIES INC	94-HB	E115797	
3	RP090-122-15B		PLATFORM-B (BLACK)	ABS #HF-0660I	CHEIL INDUSTRIES INC	94-HB	E115797	
4	RP090-122-80		LAMP HOLDER (BLACK)	ABS #HF-0660I	CHEIL INDUSTRIES INC	94-HB	E115797	
5	RP110-122-30		SCREW SLEEVE 51M/M	GPPS #GP150	THAI PETROCHEMICAL INDUSTRY	94-HB	E132283	
	RP110-137-30		SCREW SLEEVE 29.7M/M					
6	RP010-122-00		TOP COVER	ABS #HF-0660I	CHEIL INDUSTRIES INC	94-HB	E115797	
7	RP020-122-00		BASE	ABS #HF-0660I	CHEIL INDUSTRIES INC	94-HB	E115797	
8	RP100-122-11		MIDDLE RING	ABS #HF-0660I	CHEIL INDUSTRIES INC	94-HB	E115797	
9	RP280-122A-09		PLASTIC SHEET -50mm (WHITE)	PVC	SUB-SUPPLY BY SUZO	N/A	E82555	
	RP280-137-09		PLASTIC SHEET -30mm (WHITE)	PVC	SUB-SUPPLY BY SUZO	N/A	E82555	
10	RP280-122A-XX		PLASTIC SHEET	PVC	SUB-SUPPLY BY SUZO	N/A	E82555	
			METALLIC PARTS:-					
11	RM105-122-00		CONTACT PLATE	PH-BRONZE	N/A	N/A	N/A	
12	RM106-122-00		TERMINAL	BRASS	N/A	N/A	N/A	
13	RM350-012-00		SCREW #8-32x1 USPM (+-) ZNU	MS. (Ni. Plated)	N/A	N/A	N/A	
14			M4 STUD	BRASS	N/A	N/A	N/A	
15	RM601-018-00		M4 HEX NUT (4x0.7x7x3.2)	MS. (Ni. Plated)	N/A	N/A	N/A	
16	RM601-019-00		M4 DOMED CAP. NUT	MS. (Ni. Plated)	N/A	N/A	N/A	
17	RM601-020-00R1		PEM NUT	BRASS	N/A	N/A	N/A	
			ELECTRONIC PARTS:-					
18	RE000-007-00		LAMP #512		SUB-SUPPLY BY SUZO			
19	RE041-005-00		DIODE #1N4007 (MIC)		YAGEO	N/A		
20	RE080-100-10		SINGLE WIRE 3+94+3mm (Black)	UL1007 #AWG22	Unity Electrical Industrial Ltd.		E209522	
21	RE080-340-06		SINGLE WIRE 3+334+3mm (Blue)	UL1007 #AWG22	Unity Electrical Industrial Ltd.		E209522	
22	RE080-400-02		SINGLE WIRE 3+394+3mm (Red)	UL1007 #AWG22	Unity Electrical Industrial Ltd.		E209522	
23	RE080-050-02		SINGLE WIRE 3+44+3mm (Red)	UL1007 #AWG22	Unity Electrical Industrial Ltd.		E209522	
24	RE080-050-06		SINGLE WIRE 3+44+3mm (Blue)	UL1007 #AWG22	Unity Electrical Industrial Ltd.		E209522	
25	RE080-400-10		SINGLE WIRE 3+394+3mm (Black)	UL1007 #AWG22	Unity Electrical Industrial Ltd.		E209522	
26	RE150-001-00		HEAT SHRINKABLE TUBE 2.5mm UL L=25mm	TCM	SOFANOU INC OF MICHIGAN		E147784	
27	RE210-220-00		COAXIAL WIRE 220mm with Terminal X 2 #44432BS-2		Unity Electrical Industrial Ltd.		E209522	
Remark:								
Prepared By:			Checked By :		Approved By			
THOMAS								



ZPFW2.E201468 Wiring Harnesses - Component

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Wiring Harnesses - Component

[See General Information for Wiring Harnesses - Component](#)

UNITY ELECTRICAL INDUSTRIAL LTD

E201468

11TH FL
EAST SUN INDUSTRIAL CENTRE, BLK G
KWUN TONG, 16 SHING YIP ST
KOWLOON, HONG KONG

[Last Updated](#) on 2001-12-26

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AVLV2.E209522 Appliance Wiring Material - Component

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Appliance Wiring Material - Component

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UNITY ELECTRICAL INDUSTRIAL LTD

E209522

11TH FL
EAST SUN INDUSTRIAL CENTRE, BLK G
KWUN TONG, 16 SHING YIP ST
KOWLOON, HONG KONG

Table of Recognized Styles							
Single-conductor, thermoplastic insulation.							
1007	1061	1533	1617	1672			
1015	1185	1571	1618				
Multiple-conductor, thermoplastic insulation.							
2464	2468	2547	2651	2725	2877	2919	20276

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

LOOK FOR THE RECOGNITION MARK See General Information Preceding These Recognitions

For use only with equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

[Last Updated](#) on 2002-09-27

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Actions

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General Information
General

Material Status	Commercial: Active
Availability	- Africa - Asia - Europe - Pacific Rim
Test Standards Available	ISO
Features	Heat Resistance, High
Uses	- Automotive Applications - General Purpose
Agency Ratings	FDA Food Contact, Unspecified Rating
Forms	Pellets

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	3300	MPa	ISO 527-1, -2
Tensile Stress at Break ³	75.0	MPa	ISO 527-1, -2
Flexural Modulus	3300	MPa	ISO 178
Flexural Strength	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴	1.40	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
HDT A (1.80 MPa) Unannealed	100	°C	ISO 75A-1, -2
Vicat Softening Temperature	109	°C	ISO 306
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Additional Properties			

Total Luminous Transmittance, ISO 13468-1: 92%

Notes

Typical properties: these are not to be construed as specifications.

Type 1A, 1.00 mm/min

Type 1A, 5.0 mm/min

Type 1, Edgewise, Notch A

ASAHI KASEI CHEMICALS CORP

HIBIYA-MITSUI BLDG, 1-2 YURAKUCHO 1-CHOME, CHIYODA-KU, TOKYO 100-0006 JP

80N, 80NA, 80NR, 80NY, 808N, 80NR-S, 80NH, 80NHX

Polymethyl Methacrylate (PMMA), "Delpet", furnished as pellets

	Min Thk	Flame			RTI	RTI	RTI
Color	(mm)	Class	HWI	HA1	Elec	Imp	Str
NC	1.0	HB	-	-	50	50	50
ALL	1.5	HB	3	0	50	50	50
	3.0	HB	3	0	50	50	50
	6.0	HB	2	0	50	50	50

Comparative Tracking Index (CTI): 0

Dimensional Stability (%): -

High-Voltage Arc Tracking Rate
(HVRT): 0

High Volt, Low Current Arc Resis (D495): 5

Dielectric Strength (kV/mm): -

Volume Resistivity (10xohm-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 ULL.

Report Date: 1975-08-13

Last Revised: 2003-10-24

Underwriters Laboratories Inc®

**IEC and ISO Test Methods**

Test Name	Test Method	Units	Thickness	Value
			Tested (mm)	
IEC Flammability	IEC 60695-11-10	Class (color)	1.0	HB75 (NC)
			1.5	HB75 (ALL)
			3.0	HB40 (ALL)
			6.0	HB40 (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	-	-
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	-	-

IRPC PUBLIC CO LTD

14TH FL, MARKETING DEPT, SUNTOWERS B 123 VIBHAVADI RD, CHATUCHAK, BANGKOK 10900 TH

GP150

Polystyrene (PS), furnished as pellets

	Min Thk	Flame			RTI	RTI	RTI
Color	(mm)	Class	HWI	HAI	Elec	Imp	Str
NC	3.0	HB	-	-	50	50	50

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 (10xohm-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: 1998-01-20

Last Revised: 2003-10-24

Underwriters Laboratories Inc®

**IEC and ISO Test Methods**

Test Name	Test Method	Units	Thickness	Value
			Tested (mm)	
IEC Flammability	IEC 60695-11-10	Class (color)	3.0	HB40 (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/m2	-	-
ISO Izod Impact	ISO 180	kJ/m2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m2	-	-

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Actions

Legend [\(Open\)](#)

General Information

General

Material Status	• Commercial: Active
Availability	• Asia • North America • Europe • Pacific Rim
Test Standards Available	• ASTM • ISO
Agency Ratings	• RoHS Compliant
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density -Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
(200°C/5.0 kg)	3.8	g/10 min	
(220°C/10.0 kg)	38	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength @ Yield ²	42.1	MPa	ASTM D638
Tensile Elongation @ Brk ²	26	%	ASTM D638
Flexural Modulus ³	2210	MPa	ASTM D790
Flexural Strength @ Yield ³	60.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	198	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785
Thermal	Nominal Value	Unit	Test Method
DTUL @264psi - Unannealed (6.35 mm)	85.0	°C	ASTM D648
Vicat Softening Temperature (B50 (50°C/h 50N))	96.1	°C	ISO 306
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
(1.50 mm)	HB		
(3.00 mm)	HB		
(6.00 mm)	HB		
Optical	Nominal Value	Unit	Test Method
Gardner Gloss	110		ASTM D523

Notes

Typical properties: these are not to be construed as specifications.

9.0 mm/min

2.8 mm/min

CHEIL INDUSTRIES INC CHEMICALS DIV

R & D CENTER, 332-2 GOCHUN-DONG, EUIWANG-SHI KYONGGI-DO 437-010 KR

HF-0660I(+)

Acrylonitrile Butadiene Styrene (ABS), "Starex", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HA1	RTI Elec	RTI Imp	RTI
ALL	1.0	HB	-	-	50	50	50
	1.5	HB	4	0	50	50	50
	3.0	HB	3	0	50	50	50
	6.0	HB	2	0	50	50	50

Comparative Tracking Index (CTI): 2

Dimensional Stability (%): 0

High-Voltage Arc Tracking Rate
(HVT/RT): 2

High Volt, Low Current Arc Resis (D495): 7

Dielectric Strength (kV/mm): 17

Volume Resistivity (10⁹ohm-cm): 17**(+) - May be replaced by one, two, or three numbers and/or letter(s).**

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 ULL.

Report Date: 1995-08-04

Last Revised: 2007-01-09

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**IEC and ISO Test Methods**

Test Name	Test Method	Units	Thickness Tested (mm)	Value
IEC Flammability	IEC 60695-11-10	Class (color)	1.0	HB75 (ALL)
			1.5	HB75 (ALL)
			3.0	HB40 (ALL)
			6.0	HB40 (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	-	-
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	-	-



YDPU2.E147784
Tubing, Extruded Insulating - Component

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Tubing, Extruded Insulating - Component

[See General Information for Tubing, Extruded Insulating - Component](#)

SOFANOU INC OF MICHIGAN
2840 AUBURN CT
AUBURN HILLS, MI 48326 USA

E147784

Cat. No.	Max V	Max Temp C	Col Recognized	Max Temp Rated Oil Resistance *, °C	VW-1 Rated #
Polyvinyl chloride (PVC).					
TCM	600	105	All except CL	?	Yes

*Tubing is considered to comply with the optional oil resistant requirements only if it is so marked.

#Tubing is considered to comply with optional VW-1 flammability requirements only if it is so marked.

Marking: Company name, the catalog number or equivalent and temperature rating in degrees C appears on tags attached to both ends of the tubing or on the shipping spool label or smallest unit container.

Last Updated on 1994-03-29



QMFZ2.E82555 Plastics - Component

Additional information regarding this certification can be found in UL's iQ Family of Databases (www.ul.com/iq).

NEW -- for additional information concerning the individual material, click on the material designation.

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Plastics - Component

[See General Information for Plastics - Component](#)

INEOS FILMS GMBH

E82555

RADEBEULSTRASSE 1

79219 STAUFEN, GERMANY

										H	D	
		Min.		H	H	R T I		V	4	C		
		Thk	Flame	W	A	Elec	Mech	T	9	T		
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I	
Polyvinylchloride (PVC), rigid, furnished as sheets, rolls.												
105 (a)	CL	0.12	HB	-	-	50	50	50				
107 (a)	CL	0.15	HB	-	-	50	50	50				
		0.38	V-2	-	-	50	50	50				
		0.60	V-0	-	-	50	50	50				
315 (a)	ALL	0.12	HB	-	-	50	50	50				
		0.50	V-0	-	-	50	50	50				

(a) - May be followed by 2 alphanumeric characters

Marking: Company name and material designation on container, wrapper or finished part.

[Last Updated](#) on 2007-09-22

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