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	Plastics Optic Fiber Light Pipes	Date	Sep.09.2011
		Revise	

**1..DESCRIPTION:**

SHINER FIBER “Plastics Optic Fiber Light Pipes (POFLPS)” consists of sold core and cladding. Sold core .made from specialized elastomeric. Cladding made from fluorine polymer POFLPS are easy to wiring, as they have excellent flexibility and simple termination.

**2.APPLICATION:**

- Housing Facilities (lighting bathroom lighting lamp light bedside)
- Amusement (game machine pachinko)
- Information appliances (linear illumination source indicator light)
- Automotive (corner ball carriage stop lighting indoor lighting side step)
- Others (Toy Safety bicycle safety lamp shining light wand pointer exhibition)

**3.SPECIAL POINT:**

- ◆ Higher area efficiency of incident light than bundle light pipe
- ◆ Lower price than glass and plastic bundle light pipe
- ◆ Easy to wiring and excellent flexibility
- ◆ Less power loss at wiring based on small bending loss
- ◆ Simple termination (cut with blade )

**4. PHYSICAL PROPERTIES**

	Size	Tolerance	Part No./ Description
Outside diameter (mm)	1.4	±0.1	TSS-014-1 1.4.0mm * 1 core, Plastics Optic Fiber Light-Pipe
	2.0	±0.1	TSS-020-1 2.0mm 1 core, Plastics Optic Fiber Light-Pipe
	3.0	±0.1	TSS-030-1 3.0mm 1 core, Plastics Optic Fiber Light-Pipe
	4.0	±0.1	TSS-040-1 4.0mm * 1 core, Plastics Optic Fiber Light-Pipe
	5.0	±0.1	TSS-050-1 5.0mm * 1 core, Plastics Optic Fiber Light-Pipe
	6.0	±0.1	TSS-060-1 6.0mm * 1 core, Plastics Optic Fiber Light-Pipe
	10	±0.1	TSS-100-1 10.0mm * 1 core, Plastics Optic Fiber Light-Pipe
	Cut length	Delivery at required cut length (Max.2M)	
Appearance	Free from functional defects		
Appearance as light emitting	Free from huge spots of light emitting		

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## 5. RELIABILITIES

Supposed situation	Test condition	Results
Storage in high temperature	80°C*240hrs	More than 80% of the initial value
Storage in low temperature	-40°C*240hrs	More than 80% of the initial value
Storage in high humidity	40°C,95%rh*100hrs	More than 80% of the initial value

Test method for reliabilities

Light source

- ◆ Light-emitting diode (LED): green

This source is relevant to following guidelines.

Peak wavelength : 520~530 nm

DC forward current 700 mA

- ◆ Plastics Optic Fiber Light Pipes

- TSS-014-1 1.4.0mm , 270mm

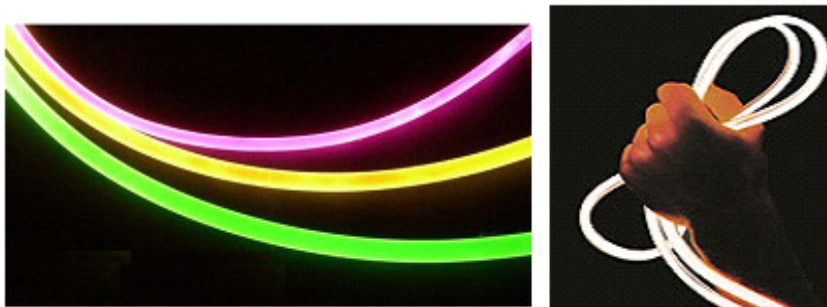
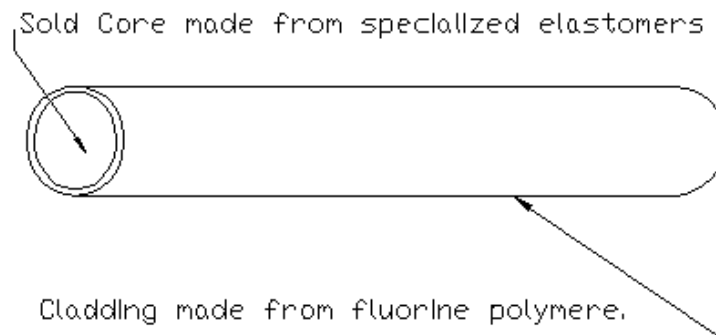
- ◆ Measured areas

- ◆ Lateral face of Plastics Optic Fiber Light Pipe at a distance of 140 mm from LED

◎ROHS compliant

## 6. STRUCTURE

The structure of POFLPS is shown as follow:



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**7. PACKAGE:**

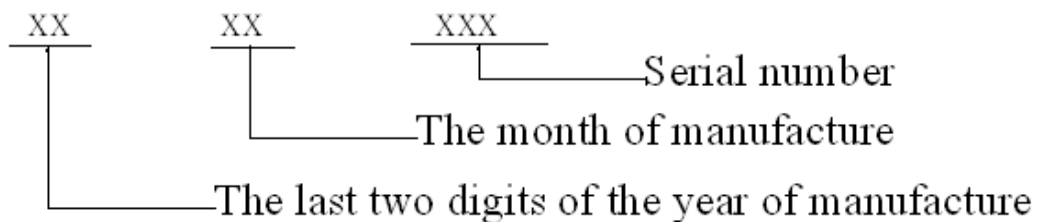
Finished POFLGS are packed in to carton securely to prevent injuries during transportation..

**8.MARKING:**

Each out packaging of POFLPS carton is put a label indicating following information.

Part No.:	Size outside diameter
Description	Cut length
Quantity	Date Code of manufacture (SERIAL NO.)

Date Code NO xx.xx xxx



**9. HANDLING INSTRUCTIONS**

- ◆ Since the characteristic may change by the use and conditions, or your company processing method, please use to confirm it enough.
- ◆ This product is crooked.
- ◆ Please confirm light emitting with an available light source.
- ◆ This product might include difference of 20% in intensities at the points on the circumference of the same distance from light source.
- ◆ Avoid any sharp edge when installing so as not to injure clad. These might cause flaws to the appearance.
- ◆ It is expected that this product is not too stretched, fastened, wrenched, bent, applied load nor dropped down. These might cause flaws to the appearance.

**10. OTHER**

- ◆ The appropriate response shall be taken after mutual consultation in the case of the following;
  - .In the case that contents of this product specification is revised.
  - .In the case that contents of this product specification develop a problem.
  - .In the case that problems unregulated in this product specification were occurred.
- ◆ Please return the cover to us after stamp on it. It is confirmed that if there is no returned

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