

E-TEXTILE DEVELOPMENT ITEM VOL.5

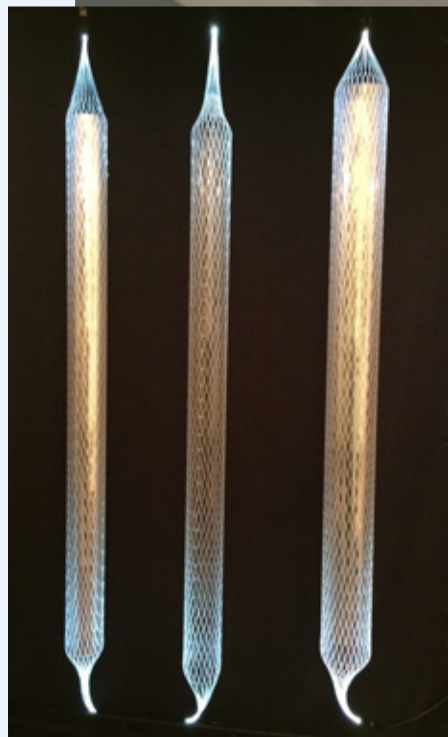
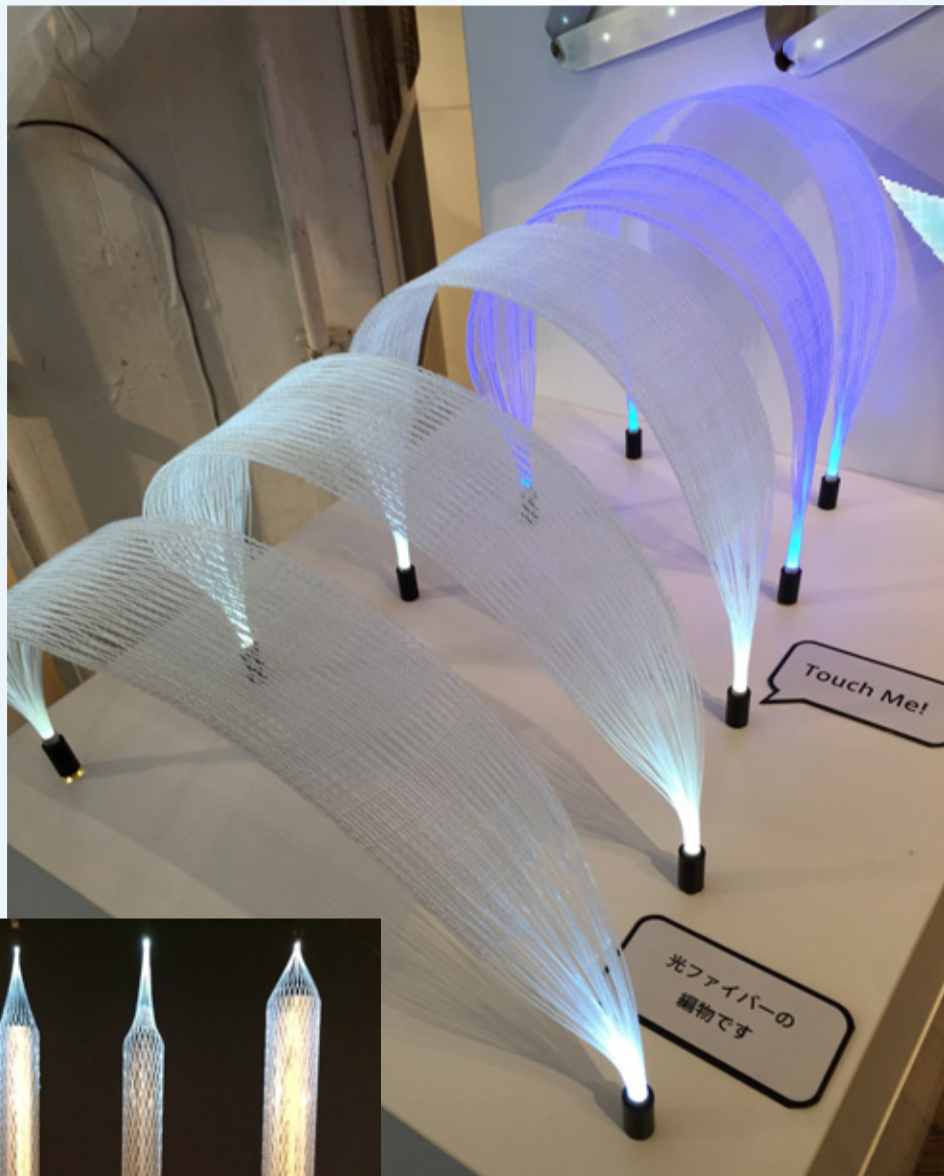
These samples are under development, the quality may be slightly changed when they are officially launched.

- stock for bulk
- stocked for sample
- promotion only

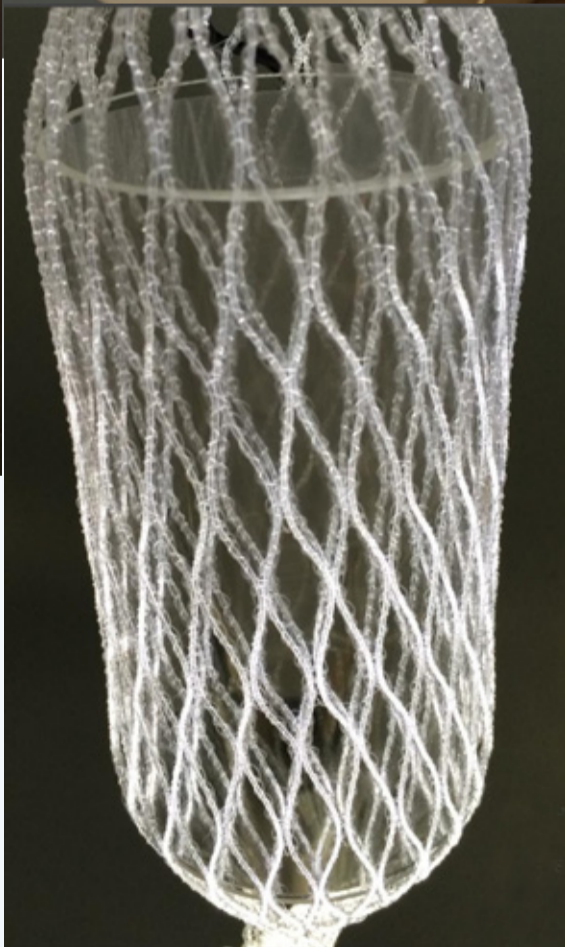
application for patent
being processed
特許申請中

- It used plastic optical fibers of the side luminous type and sparkle with only LED lights.
 - Featuring optical fibers finely the mesh knit together to produce a trim that glows with light.
- Available in custom widths.
- The mesh knit into a flexible and slightly stretchy knit pattern.

PLASTIC OPTICAL FIBER MESH KNIT



- The specification = Warp knitting
Width : 10mm ~ 100mm
Material : RAYTELA™ (Toray Industries, inc.)
φ0.75mm, polyester mono filament



RAYTELA™ is a registered trademark of Toray Industries, inc.
レイテラ™ は、東レ株式会社の登録商標です



Spread Me!!
引き伸ばしてもらい、光ファイバーニットの伸び具合を実感してもらう

【Point processing】

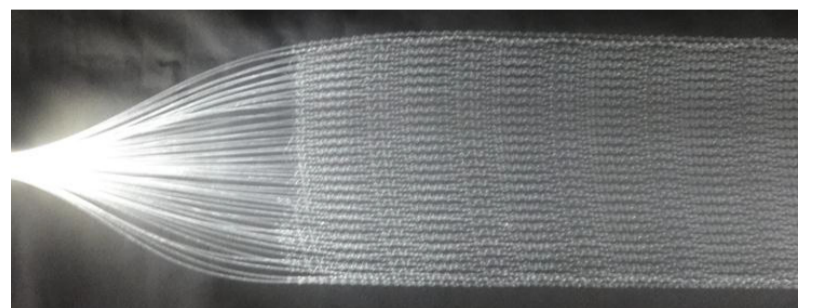
【Receipt of the LED source】



【LED source installation】



- LED light source...The shell type LED (white and blue)
 - Power consumption : 700mW (about 140 mA of current x 5 V of voltage)
 - Illumination : 20,000mcd (=20cd)
- Power supply...Battery BOX of the double A battery 2 specification
- Harness...USB with a stereo cable type φ 3.5mm



Illumination method for measurement

1. Use measuring instrument
Lux meter : Made by Konica Minolta Digital lux meter T-1M
2. The illumination measurement environment
It depends on darkroom-ization (by lux meter measurement, less than 0.01 lx).
3. Use light source
White LED (for emission intensity, the right table reference)



White LED Result of measurement

| The illumination (lx) | | Brightness (cd/m ²) |
|---|-----------------------|---------------------------------|
| ※ By less than 50 mm, sensor sensitivity coat | | |
| The distance of 50mm | The distance of 100mm | The distance of 2m |
| 76,000 | 21,000 | 206,000 |

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SHINDO

2015 DEVELOPMENT COLLECTION
October 2015

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