

# E-TEXTILE DEVELOPMENT ITEM VOL.4

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 woven together to produce a trim that glows with light.
  - Washable polyester woven as jacquard to prevent shrinkage - suitable for a variety of functional as well as stylish applications.\*
- \* An electrical wiring part is removed.

## PLASTIC OPTICAL FIBER RIBBON



【Receipt of the LED source】



【Point processing】



【LED source installation】



【Power supply on】



- 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



- The specification = needle jacquard loom
- Width : 3mm ~ 60mm
- Material : RAYTELA™ (Toray Industries, inc.) φ0.25mm, polyester and polyester mono filament

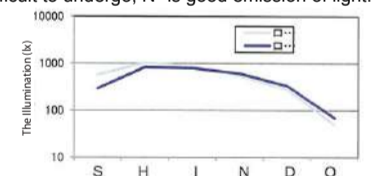
【Power supply off】



The character thickness 5mm

	Illumination result of measurement (unit :lx) ● : Measuring point						
	The LED source side	S	H	I	N	D	O
Lot No. A	Average	570	1025	850	540	280	50
	Min.	390	840	580	470	210	40
	Max.	720	1310	1160	630	320	60
Lot No. B	Average	290	830	790	610	330	70
	Min.	220	610	630	530	300	60
	Max.	400	900	870	680	380	80

"S" by which the character crowds, "H", "I", "N" sense light besides the measurement point by a lux meter sensor and have gone out to the numerical value highly, but when it's compared by the character of the "D" and the "O" for which other luminous influence is difficult to undergo, "N" is good emission of light. The difference is judged by the illumination (the "S" side) by lot A and lot B for a short while, but there are no great differences as the general illumination of the whole, and there are no great differences in 2 lots.



### 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) ※ By less than 50 mm, sensor sensitivity coat		Brightness (cd/m <sup>2</sup> )
The distance of 50mm	The distance of 100mm	The distance of 2m
76,000	21,000	206,000

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

This report is including the pictures and clippings which are reserved all rights by the third party.

©本レポートには、雑誌クリッピングの画像等第三者が著作権・肖像権等の権利を有するビジュアルが含まれています。

Please note that this is made only for the purpose of image source to your company's new development. Please use it only in the related department of your company, and do not use other purpose nor provide it to the others.

©貴社の新商品開発の企画案のイメージソースとしてのみご利用ください。またこの利用範囲は貴社の関連部署内に限定し他所への転用及び譲渡はお控え願います。

# SHINDO

2015 DEVELOPMENT COLLECTION  
October 2015

15/10 AO fes