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ONLINE ISSN : 1880-1986

PRINT ISSN : 1346-8235

**Journal of Textile Engineering**

Vol. 52 (2006) , No. 3 93-97

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## Optical Properties of Woven Fabrics by Plastic Optical Fiber

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(Received January 18, 2006)

(Accepted for publication April 8, 2006)

**Abstract:** Plastic Optical Fiber (abbreviate POF) is used in the various fields; short range communication, sensor, illuminate exploitation and so on. The fabric is one of the forms in illumination fields, but there are no reports about the lighting properties of POF fabrics. In addition, for the fabric development, it is very important to estimate the optical characteristic in the textile design stage.

In this report, the lighting properties of POF fabrics are measured and the new method to estimate the optical properties of POF fabric is suggested.

**Key Words:** [Plastic optical fiber](#), [POF fabric](#), [Lighting fabric](#), [Lighting properties](#)

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To cite this article:

Atsuji MASUDA, Tetsuhiko MURAKAMI, Keiichi HONDA and Shinji YAMAGUCHI, J. Text. Eng., Vol. 52, p.93 (2006) .



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