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Evaluation of “Shittori” Characteristic for Fabrics

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Abstract: “Shittori” in Japanese word of the human tactile sensation was not the same as smoothness. We evaluated the “shittori” feeling for fabrics by the sensory evaluation such as Kendall’s rank method, Scheffe’s method of paired comparison (modified method by Nakaya), and analyzed the relationship between the results by sensory evaluation and the mechanical, surface and thermal properties of fabrics measured by the KES system. The stronger “shittori” sensation for fabrics was accompanied with either the warm or soft. The yarn count and yarn density were related to the intensity of “shittori”. The effective characteristic values to understand “shittori” feeling of fabrics were q_{\max} (the maximum value of heat flux), MIU (coefficient of friction), 2HB (hysteresis of bending moment), WC (compression energy) and thickness. In the cosmetics field, “shittori” expresses such state as the moisture is maintained in the skin, however in the case of “shittori” for fabrics, moisture regain of fabrics did not affect the subjective evaluation of “shittori”.

Key Words: [Shittori](#), [Tactile sensation](#), [Objective evaluation](#), [Sensory evaluation](#)

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