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Objective and Subjective Handle Evaluation for Disposable Diaper's Top Sheets and Reusable Diaper's Fabrics

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Abstract: In order to examine objective evaluation equations for disposable diaper's top sheets, representative top sheets are evaluated by those equations and by subjective method comparing with reusable diaper's fabrics. Following conclusions were obtained. Objective evaluation equation for primary hand (DPCM-1) is useful for calculation of primary hands "NAMERAKASA" and "KOSHI", however, it is not effective to "SOFUTOSA" and "FUKURAMI". Two objective evaluation equations for total hand value (THV) (DPCM-2, 3) are both available for top sheets. THV decreased in the order of spunbond, air-through, meltblow, and spunlace for both objective and subjective values. Used fabric for reusable diapers examined here (plain weave) has higher "NAMERAKASA", "SOFUTOSA", "FUKURAMI" and THV, however, lower "KOSHI" than the original fabric.

Key Words: [Fabric handle](#), [Top sheet](#), [Diaper](#), [Subjective evaluation](#), [Objective evaluation](#)

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