

Some Studies on Selected Physical and Comfortability Aspects of Disposable Diapers

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Structured Abstract

Background: Disposable diapers have completely affected how people use diapers. In terms of improved cleanliness, decreased skin wetness, reduced diaper dermatitis, or diaper rash, and less transmission of faeces, disposable diapers clearly outperform cloth diapers. The sheets included with disposable diapers have different purposes. Disposable diapers have three main layers which are the top sheet, the absorbent layer, and the back sheet. The top sheet transfers liquid to the lower absorbent layer, whereas the absorbent layer is to absorb liquid. The back sheet is a layer that keeps liquid inside the diaper and keeps it from leaking out.

Methods: Experiments were carried out by using five commercial brands of disposable diapers in the market. This study aims to identify the brands with the best moisture, comfort, breathability, absorbency and dryness-related qualities. Tests include a moisture management test, a water vapour permeability test, a modified absorbency test and a modified dryness test.

Results: As a results, Applecrumby achieved all the categories to indicate comfortability aspects of disposable diapers.

Conclusion: In conclusion, the study can be utilized to inform general public and consumers about the issue of local infant diaper goods' comfort.

Keywords: Diapers, Moisture, Comfort, Breathability, Absorbency

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