

Abstract

Defying Gravity - Next Level Absorbent Products Performance

For at least the last 2 decades there has been no change to how diapers work: Gravity drives liquid down, it penetrates the topsheet, is briefly stored in a so-called acquisition layer, and is then handed on to a storage core- hopefully before it leaks out the sides.

Especially for stationary users, like a sitting baby or a bed ridden senior, this leads to very uncomfortable bulges of swollen absorbent in the wrong places. It also leads to only a fraction of the absorbent material being used. Not a good use of resources.

Distribution against gravity: We will present a cost-efficient, predominantly cellulose based material allowing fast redistribution of liquid in an absorbent product, against gravity. This improves wearer's well being through better fit and comfort, while better utilizing resources in the absorbent core.

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