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Bio-degradable pads using materials such as banana fiber: An overview

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Abstract:

The increasing environmental apprehensions linked to disposable sanitary pads have prompted the investigation of sustainable alternatives. Derived from the stems of banana plants, banana fiber is a natural and biodegradable material that shows great potential for manufacturing environmentally friendly sanitary pads. This article explores the application of banana fiber in the production of biodegradable pads, emphasizing its benefits and discussing possible obstacles.

Benefits of utilizing sanitary pads made from banana fiber:

1. **Environmental Sustainability:** Banana fiber is a replenishable and decomposable material, providing a notable ecological benefit compared to traditional plastic-based pads.
2. **Comfort and breathability** are guaranteed during menstruation due to the soft and absorbent characteristics of banana fiber.
3. **Antibacterial qualities:** Research indicates that banana fiber exhibits antibacterial qualities, which may help decrease the likelihood of illnesses.
4. **Economic Feasibility:** Banana fiber is abundantly accessible and comparatively affordable, rendering it a financially efficient substitute for the production of sanitary pads.

Obstacles and possible resolutions:

1. **Water Absorption Potential:** The water retention capacity of banana fiber may require improvement in order to equal the absorbency level of traditional pads.
2. **Production Optimization:** Additional investigation and advancement are necessary to enhance the production procedure of banana fiber sanitary pads to guarantee consistent quality and performance.

3. Enhancing consumer awareness on the advantages of sanitary pads made from banana fiber is imperative to promote their broader acceptance and usage.

To summarize, the utilization of banana fiber presents a viable remedy for manufacturing eco-friendly sanitary pads, effectively tackling the environmental issues linked to traditional disposable pads. Through ongoing research and development aimed at enhancing performance and increasing consumer awareness, banana fiber sanitary pads possess the capacity to transform menstrual hygiene practices.

Keywords:

Biodegradable Pads, Banana Fiber, Sustainable Alternative, Menstrual Hygiene, Eco-Friendly, Renewable Material, Antibacterial Properties, Economic Viability, Water Retention Capacity, Production Optimization, Consumer Awareness, Adoption.