kura*ray*

SAFE AND ECO-FRIENDLY SOLUTIONS

Precious moments start with elastics



Elastic innovations through global collaboration



Kuraray Euro Solution Bu Technology De

Kuraray America, Inc. Research & Technology Center

kuraray

Kuraray's global network drives materials science – for people and the planet.

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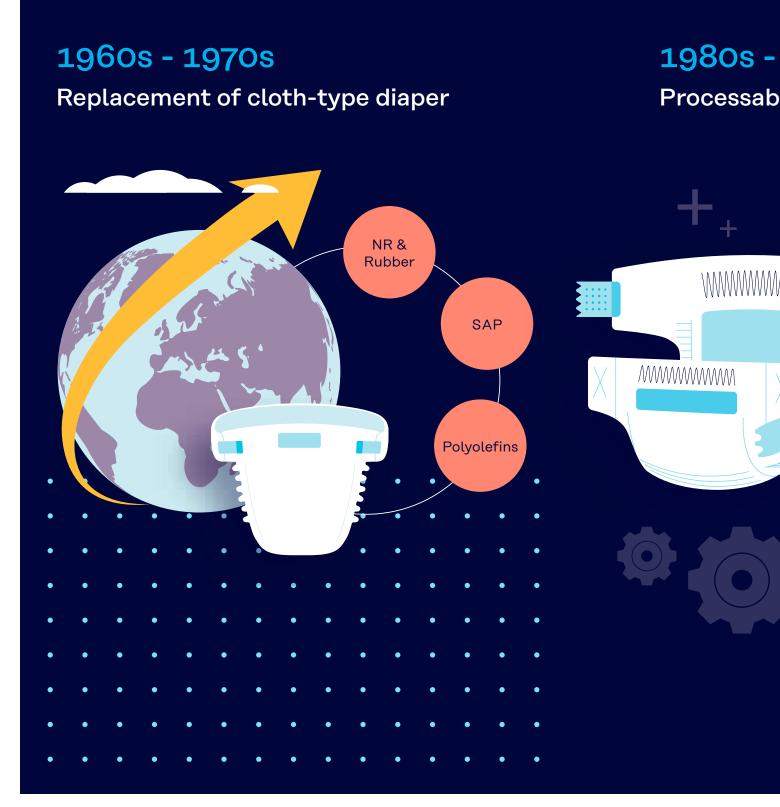


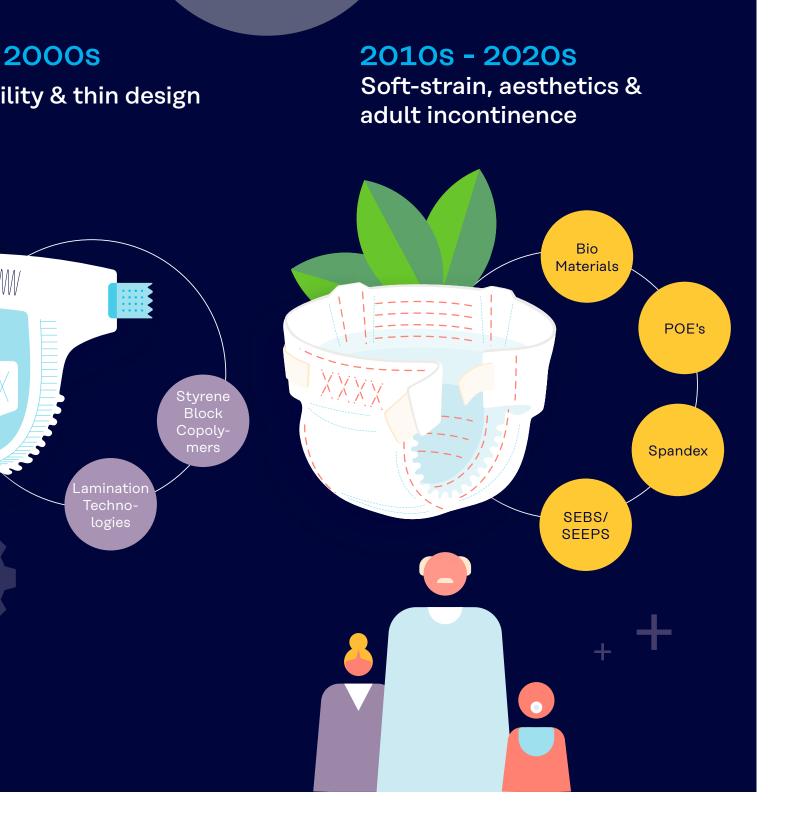


Kuraray GC Advanced Materials Co., Ltd. Production Plant of SEPTON™ established in 2023



The chemical industry is in change





Trends of today

Soft strain & stable hold Comfort, elasticity, no red marks

Odor less No chemical smell (antioxidants, degradants)

SEPTON™ BIO-series

SEPTON™

Green & sustainable

Circular, renewable, bio-based

SEPTON™ & KURARITY™

Efficient & economcial

High-speed conversion & weight reduction

KURARAY'S INNOVATIVE MATERIALS

for products that require odor control, the elimination of

harmful substances and the reduction of VOCs.

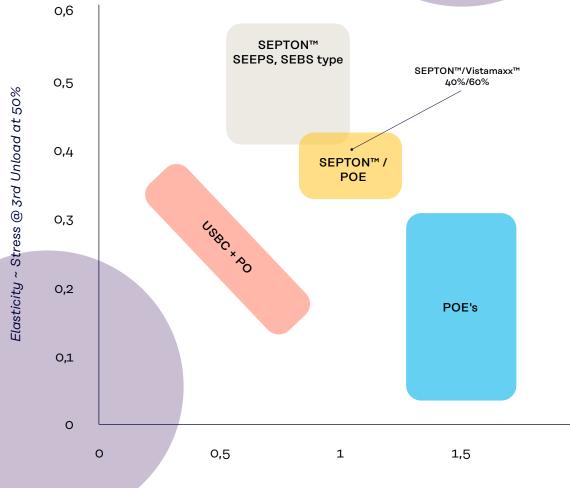
Stretch laminates

Stretch laminates are a composite material composed of two or more layers of materials, such as a stretchable film and a non-stretchable fabric, that can be stretched to conform to different shapes and sizes. To reduce odor in stretch laminates, Kuraray's newly designed SEBS(styrene-ethylene-butadiene-styrene) and SEEPS (styrene-ethylene-ethylene-propylene-styrene) are a superior choice compared to unhydrogenated styrenic block copolymers (USBCs). Hydrogenated styrenic block copolymers (HSBCs) are more resistant to oxidation and UV degradation, can lead to the release of odorous compositions. The hydrogenation process increases the percentage of saturated carbon-carbon bonds, making HSBCs more resistant to degradation mechanisms that can cause odor formation. As a result, SEBS and SEEPS are a popular choice

SBS-based SEPTON[™] / POE 400 350 300 Sweet chemical 250 Odor detection Styrene 200 Olefinic Lime Isomer 150 100 Natural 50 0

Qualitative method and determination of the substance by GC-MS(O)





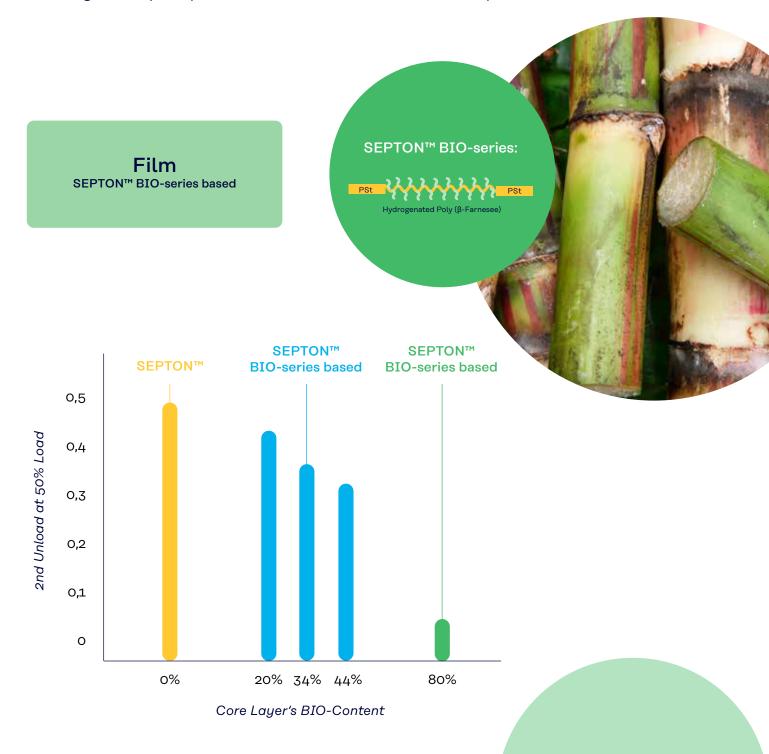
Soft-Strain ~ Stress @ 3rd Load at 100%

2

KURARAY'S INNOVATIVE MATERIALS

Sustainable Elastics

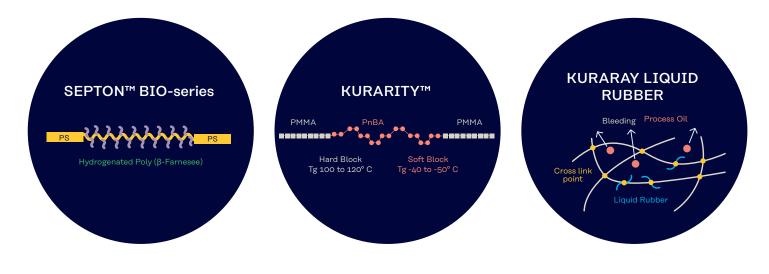
Bio-based hydrogenated styrenic block copolymers (HSBCs) are an eco-friendly alternative to traditional USBCs such as SBS, which are commonly used in the production of diapers. They are made from renewable resources, such as plant-based feedstocks, reducing reliance on non-renewable fossil fuels and minimizing the environmental impact of the diaper. Despite being more sustainable, bio-based HSBCs can maintain the same desirable properties as traditional polymers, such as elasticity, strength, and flexibility, ensuring the diaper's performance and comfort are not compromised.

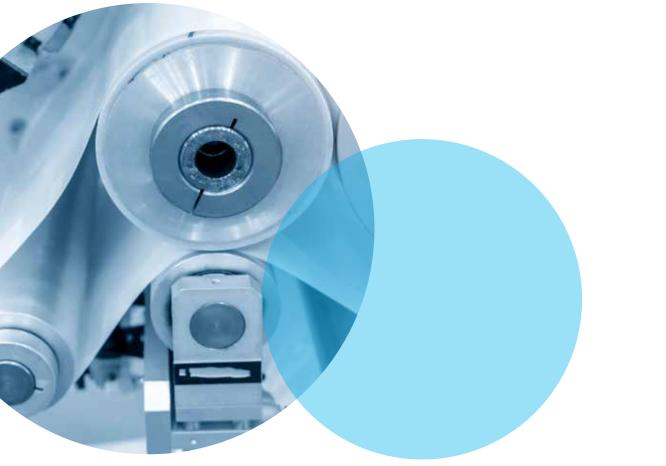


KURARAY'S INNOVATIVE MATERIALS

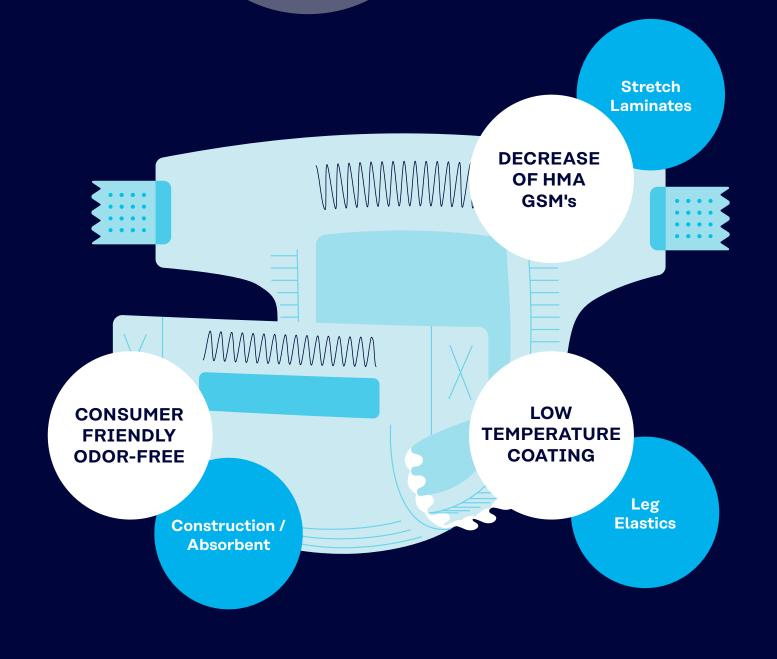
Safe Adhesion

Diaper adhesion is important for the performance and comfort of the diaper, and problems can lead to leaks, discomfort, and reduced performance. Common problems that can occur in diaper adhesion include delamination, poor bonding, inconsistent bonding, adhesive failure, and poor substrate preparation. To address these issues, Kuraray developed its unique adhesive to improve the manufacturing processes, and conduct rigorous testing to ensure strong and consistent adhesion between the components of the diaper.





Efficient & Odor free adhesive solutions



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Adding value to your products-worldwide



Kuraray is a world leader in specialty chemicals and functional materials. We are committed to developing products that ensure quality and value while helping our customers differentiate themselves from their competition.

Kuraray's Elastomer Division started in 1972 with the production of polyisoprene rubber and the development of new rubber materials based on Isoprene in the Kashima Plant. From the first production line, the Elastomer Division continuously grew and invented new products such as SEPTON[™], HYBRAR[™], KURARAY LIQUID RUBBER, ISOBAM[™] and KURARITY[™].

Kuraray strives to develop new and innovative highperformance products for customers around the globe. Learn more about Kuraray's Elastomer products, visit **elastomer.kuraray.com.**

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