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## PAPTIC® is a revolutionary new material replacing plastics

PAPTIC® material is made of sustainable wood fibre, suitable for uses where plastic films have previously been the only alternative. The versatility of PAPTIC®, along with its exceptionally pleasing haptic properties, make the material a powerful tool for environmentally conscious brands.

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## PAPTIC® spares scarce resources

PAPTIC® is a biobased, recyclable and renewable next generation packaging material; it offers an unseen combination of paper and plastics' qualities. PAPTIC® can be converted with the same production machinery used with paper and plastic. If PAPTIC gets wet it, unlike paper, returns to its original dimensions when dried. Paptic® is a resource efficient material. The low weight enables cost efficiency throughout the value chain.

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## PAPTIC® functions like plastic

PAPTIC® is heat-sealable, enabling its use in various packaging applications. PAPTIC® can be stretched up to 20%, the tensile strength of PAPTIC® is high compared to plastic films and it does not lose its shape as easily when loaded. As with plastic bags, the PAPTIC® bag can be folded to a small volume and stored ready for its next use.

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## PAPTIC® shares qualities with paper

Paptic® technology enables the introduction of unique product features and their combinations. Paptic can replace the non-degradable and non-renewable plastic materials in various applications.

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**Basis weights and thickness:** PAPTIC® is currently available in weights from 35 to 150 gsm (30 to 200 micrometers in thickness). PAPTIC® is available in various basis weights from 30gsm to 150gsm.

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**Versatility:** PAPTIC moves beyond the limits of paper, adapting across a wide range of flexible packaging applications.

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### Examples of product applications:

- Carrier bags
- String bags
- Medical packaging
- Graphical applications
- E-Commerce mailing bags
- Cosmetic bags
- Wrappers

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**Heat sealable:** Paptic® can be heat-sealed similarly to plastic films.

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**Sustainable raw materials:** The main component of PAPTIC® is sustainably sourced, renewable wood fibre.

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**Food contact approval:** PAPTIC® is made of raw materials that are approved for food contact packaging.

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## PAPTIC® out performs paper and plastic

**Reusable:** The durability of Paptic® is due to its high tear resistance, fracture toughness and stretch. Especially in carrier bag applications the reusability is gaining of importance. The durability combined with the tactual properties of Paptic® explains the consumers' willingness to reuse Paptic® bags. (a consumer study downloadable in our website [www.paptic.com](http://www.paptic.com))

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**Stretching:** PAPTIC® stretches up to 20%, compared to 5-7% in typical packaging papers. Stretchability higher than paper combined with tensile stiffness higher than plastics, gives high impact resistance whilst maintaining the shape of the bag.

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**Space-saving:** The combination of thinness and durability provide excellent pocketability, and efficient, economical logistics.

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**High air permeance:** Enabling excellent filling speeds in bag and sack applications. The permeability of Paptic® enables high productivity in packaging lines and brings added value in many applications. Due to the high air permeance Paptic® is also a safe choice especially in bags and packages used by children.

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**Feel good:** The novel production process of Paptic® provides a uniquely pleasing texture. This distinctive feeling gives the material an identifiable quality that is synonymous in consumers minds with a high performance, high quality, and sustainable choice.

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## PAPTIC® works with existing converting lines

**Convertability:** PAPTIC® can be converted on existing lines, such as plastic bag, paper bag, flow pack, flexible packaging, label and mailing bag converting machines.

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**Sealability:** Heat sealable with the same machines and packaging lines used with plastic films.

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**Glueability:** Paptic® can be glued with the same glues used with paper bags and packaging.

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**Printing:** Printable with flexo printing, UV-ink-jet, using commercial standard inks.

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## Get in touch

PAPTIC is a uniquely diverse material. Whatever you're looking to create, we're always open to discussion.

Contact us now if you'd like to know more about the Bio-Based Product of the Year 2017, and want to join the journey towards plastic free oceans.

Product spec sheets and samples available on request.

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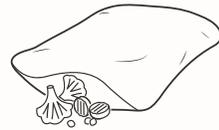
### For more information contact:

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**Single use bag:** Carrier bags made with paper, plastic and non-woven bag machines.



**Flexible packaging for food:** PAPTIC® is an excellent base for barrier films and coatings.



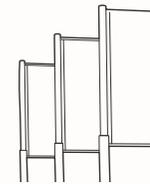
**Industrial packaging:** Bags and sacks with excellent packing speed and fracture toughness.



**Multi-use bag:** Proprietary PAPTIC® flat bottom bag, designed for re-usability.



**Non-food flexible packaging:** Pouches with excellent tear resistance for toys, tools, goods.



**Graphical uses:** Posters, flags and banners with high strength and durability requirements.



**E-commerce:** Efficient and reliable mailing bags for shipping.



**Special applications:** PAPTIC® can be developed for high-end applications, such as medical packaging.



**Other:** Challenge us to find new uses for PAPTIC®.



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