

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.

PAPTIC® spares scarce resources

PAPTIC® is a 60–85% biobased, recyclable, next generation packaging material; it offers an unseen combination of paper and plastics' qualities. PAPTIC® can be converted similarly to paper or plastic, i.e. existing production units can be used.

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.

PAPTIC® shares qualities with paper

Basis weight:



PAPTIC® is available in various basis weights from 30gsm to 150gsm.

Versatility: PAPTIC® product range enables a perfect fit in any end use.

Thickness:



PAPTIC® is available in a range of thicknesses, from 30 – 200 micrometres.

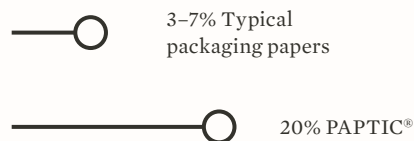
Sustainable raw materials: The main component of PAPTIC® is sustainably sourced, renewable wood fibre.

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

PAPTIC® out performs paper and plastic

Reusable: Superior folding endurance and durability allow exceptional re-usability.

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.

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

High air permeance:

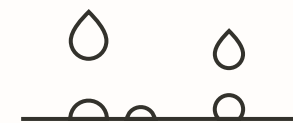
Enabling excellent filling speeds in bag and sack applications.

Feel good: The fibre bonding process used to create 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, sustainable choice.

The PAPTIC® product portfolio is to grow

Biodegradable or compostable: PAPTIC® is currently based on up to 80% biodegradable raw materials, with a view to this becoming 100% in the forthcoming product generations.

Water resistant:



For outdoor, or chosen industrial applications, a water resistant PAPTIC® can be produced.

Use of recycled raw-materials:

PAPTIC® enables the use of a wide range of different raw-materials. Forthcoming PAPTIC® generations will be based on the use of recycled raw materials.

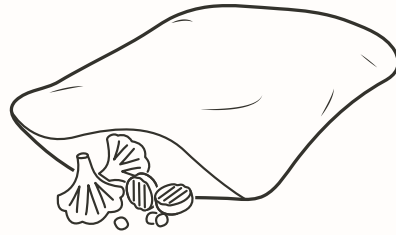
For more information contact:

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Tekniikantie 2D
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Finland



Single use bag: Versatile punch hole and loop handle bags in various sizes.



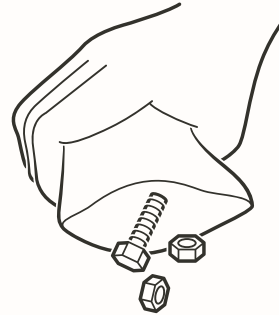
Flexible packaging for food: PAPTIC® is an excellent base for barrier films and coatings.



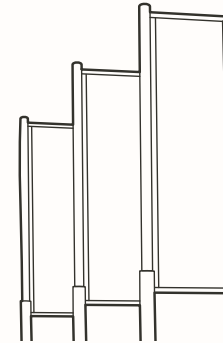
Industrial packaging: Bags and sacks with excellent packing speed and fracture toughness.



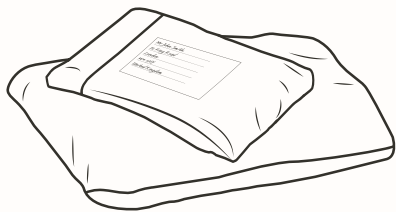
Multi-use bag: Proprietary PAPTIC® flat bottom bag, designed for re-usability.



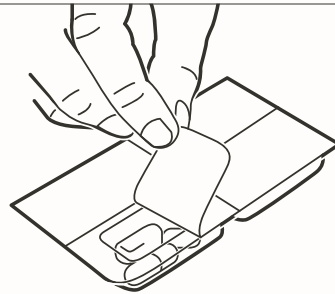
Non-food flexible packaging: Pouches with excellent tear resistance for toys, tools, goods.



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®.

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.

Sealability: Heat seal-able on skirt weld-type plastic bag converting lines at commercial speed of 200 strokes/min.

Glueability: PAPTIC® is also glue-able on paper bag converting lines.

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