

PTS: KNOW-HOW AND EXPERTISE MAKE USE OF OUR VAST EXPERIENCE

Many brand manufacturers have already turned to us for outstanding product designs based on uncommon materials. PTS assists with development projects on the use of

- » miscanthus
- » grass
- » straw
- » nutshells
- » cocoa bean shells
- » hop extract residues
- » grape stems

for

- packaging papers (multiply board, cardboard, corrugating base, tube-winding papers)
- graphic papers and
- moulded pulps.



OUR SERVICE OFFER: CUSTOMIZED PRODUCT DEVELOPMENT

PTS has extensive knowledge about biogenic materials and fibre technology. We assist you with generating ideas for specific products, make demonstrators in our laboratories and pilot plant facilities, and plan, coordinate or support systematic developments up to the final product. Our excellent network enables us to devise integrated economic concepts for our customers.

- » Availability and procurement of raw materials
- » Treatment of raw materials
- » Possible uses for by-products
- » Recipe optimisation for individual product profiles
- » Effects on processes and water circuits
- » Converting properties
- » Requirements for durability, hygiene, occupational safety, migration, food contact

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*Making paper from nutshells,
board from straw,
crates from pomace,
tubes from hop ...*



» FIBRES AND COMPOSITES | » PACKAGING AND CONFORMITY | » PRINT AND FUNCTIONAL SURFACES | » INDUSTRY 4.0 | » MATERIAL TESTING AND ANALYTICS

**DEVELOPING PAPER AND BOARD
WITH VEGETABLE BY-PRODUCTS**

VEGETABLE BY-PRODUCTS FOR PAPERMAKING

ORGANIC & COST-SAVING VEGETABLE BY-PRODUCTS AS PULP SUBSTITUTES

Biogenic side-products and plant residues can be used to replace part of the conventional raw materials used in papermaking. Straw, grass, pomace, husks or nutshells have already been tested successfully – and many other materials are potentially suitable.

They must only be treated mechanically to replace more expensive recycled fibres or wood pulps, and several other fibre-technological methods are available for more superior applications.

They are mainly used in package production, but also for eye-catching graphic papers and specialty applications.



CREATING VALUE BENEFITS OF GREEN RAW MATERIALS

Vegetable by-products offer many advantages:



Cost reduction: Alternative raw materials can replace more expensive ingredients without losses in product quality and processing behaviour. A broader raw material basis enables manufacturers to respond more flexibly to market changes

Product quality: Alternative ingredients enable new material or special haptic characteristics

Pollution reduction: Residue utilisation means using less primary resources to improve the eco-balance of products.

Image and marketing: Because consumers are increasingly fond of sustainable paper products, paper producers and converters can use alternative “green” raw materials to more effectively market their eco-friendly products.

IDEAS LEADING TO SUCCESS CONCEPTS WITH APPEAL

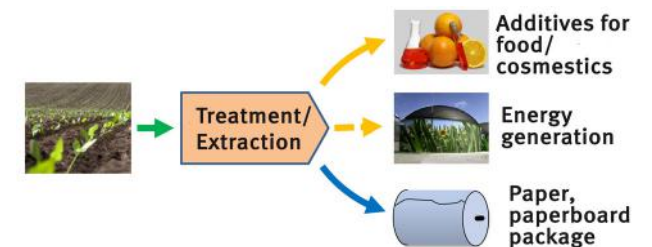
RECOGNIZING CHANCES IN THE MARKET

Distributors and end users are well aware of environmental demands – they are therefore asked to participate in developments.



ADDED VALUE THROUGH CO-PRODUCTS

Papermaking fibres and other usable plant compounds are produced simultaneously.



SYSTEMIC APPROACH

Vegetal products are presented in packages made from by-products of their original manufacturing processes.

