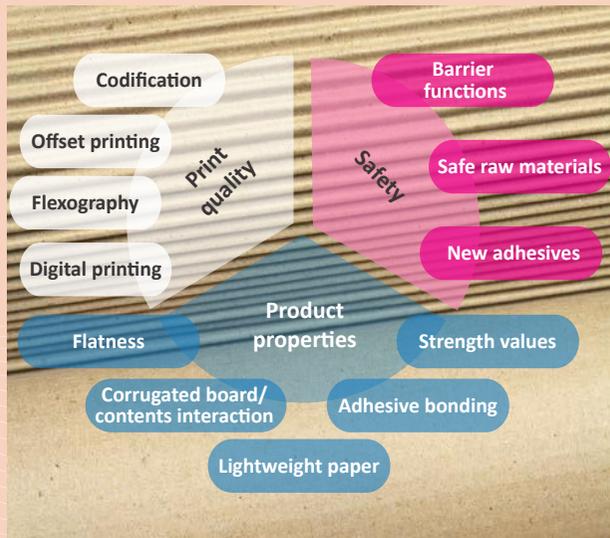


YOUR QUESTION IS OUR MISSION!

Corrugated board packaging is developing at a fast pace, quite unaffected by any crises. This product segment will continue to experience unprecedented growth in future as well. As the result of a survey of manufacturers, converters and suppliers, PTS has ascertained thematic priorities for the entire corrugated board value chain.

Flatness, adhesive strength and printability are the most frequently cited themes in the field of product and process properties. Packaging manufacture, which is to be better in future, will require dimensional stability and the use of light-weight paper grades to an ever greater degree. The development of smart packaging and new products for sectors such as architecture and mobility will co-determine tomorrow's market.

To meet the requirements and the needs of industry, PTS emerges as a reliable partner in your sector with the following key areas:



OUR RANGE OF SERVICES AT A GLANCE

Product and process consultancy

- » Simulation-assisted productivity improvement by reducing deviations in flatness
- » Light-weight test and kraft liner
- » Consultancy on process engineering
- » Development of barriers to protect packaged goods and to prevent migration of undesired substances
- » Development and production of innovative adhesives for corrugated board manufacture including testing of the product, process and adhesion properties
- » Development of paper with alternative plant-based raw materials for corrugated board manufacture

Printing technology

- » Optimisation and evaluation of printability and runnability, especially for digital printing processes, offset and flexography

Measuring and testing services

- » Testing of strength parameters (ECT, puncture energy, bursting strength and 4-point bending stiffness) and characterisation of the properties of corrugated board in the transport process
- » Determination of undesirable substances and contaminants such as mineral oil, phthalates and DIPN in corrugated board packaging

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FOCUSSING ON CORRUGATED BOARD

FOCUSSING ON CORRUGATED BOARD

PRODUCT PROPERTIES

SAFETY

In times of increasingly stringent requirements to label and classify substances, PTS provides you with support in developing safe adhesives – and in putting them on the market.

BARRIERS

The phenomenon of the migration of substances out of food packaging is a complex problem. We can help you by determining different substances and by conducting migration measurements. In addition, PTS has many years of experience in developing barriers for a wide variety of different applications.

CORRUGATED BOARD & CLIMATE

Since it is a hygroscopic material, corrugated board reacts to climate change. We can support you by providing simulation-assisted box design for climate-dependent long-term stability.



TRACK & TRACE SUPPORT

The development of modern package codification ranges from the classical barcode to multi-dimensional data matrix codes and even 3D applications. PTS offers you the possibility of evaluating printed and unprinted samples. For liner manufacturers, we can qualify and pre-certify the surfaces for inkjet codification.

CHARACTERISATION

Our state-of-the-art laboratory equipment has numerous services for testing the strength characteristics of corrugated board packaging (ECT, puncture energy, bursting strength and 4-point bending stiffness) as well as a variety of testing services for corrugated board adhesion (adhesive strips, adhesive tapes, hot melt adhesives).

The development of our own PTS methods, e.g. the objective testing of the glued seam strength of corrugated board packaging, rounds off our service portfolio.



RESEARCH & DEVELOPMENT

FLATNESS OF CORRUGATED BOARD

Deviations in flatness are an ongoing issue in the corrugated board industry. The current focal point of research at PTS is the simulation-assisted process optimisation of corrugated board manufacture with a view to increasing productivity in corrugated board plants as well as in downstream converting processes. Based on the experience we have gathered, we can provide you with support with flatness problems not only by using measurement engineering, but also by making an on-site situation analysis and model calculations.

MATERIAL DEVELOPMENT

Additional key research activities are the development of innovative packaging materials, new approaches to transport simulation and testing, as well as the development of corrugated structures made of thin MDF for use in lightweight construction.

