An overview of the packaging market
– Summary report from FachPack 2013

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Public Report
Acknowledgements

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1 Summary

This report gives an overview of some of the most interesting exhibitors and their products from FachPack exhibition in September 2013 in Nürnberg, Germany. FachPack is regarded as one of the top European trade fairs for packaging, and it covers the whole chain packaging, machine construction, packaging printing and packaging logistics. The selection in this report is around 50 companies out of 1440 exhibitors, which means that it is not claimed to be representative, but will show a snapshot of what is going on at the moment in the packaging area, and is of interest for Innventia.

The different companies/exhibitors of our interest can be divided in five sections, namely:

- Materials for packaging and converting
- Materials for special applications
- Systems, distributors etc.
- Measurement equipment
- Organisations, networks and education

Both primary and secondary packaging is covered as well as many different branches where packaging is used.

Safety and security aspects were a large theme, especially for the pharmaceutical industry which has to struggle against the large amount of counterfeit. Therefore also the legislation is becoming stricter, for example concerning new requirements on serialisation, i.e. unique identity of each single package. Also the demands on tamper evident first opening verification, equally for primary and secondary packages, are becoming stricter.
2 Introduction

Innventia as part of its investments in the Focus Area “Materials for packaging” will more closely look to the general packaging market and especially in this report there is an attempt to give a snapshot of relevant questions concerning packaging in general and transport packaging (corrugated board) more specifically. Also areas such as medical and pharmaceutical packaging will to some extent be covered.

An important exhibition fair in the packaging area is FachPack that is held in Nürnberg, Germany every September two years out of three. (It is not held when InterPack, the world’s largest packaging exhibition is held every third year in Düsseldorf; 2011, 2014 etc.)

The aim of the visit was to get more insights due to:

- Preparatory work in Innventia research program proposal “Boosting Transport Packaging Performance”
- Learning the market better and discuss and get input from possible partners
- Learning new markets and new possible customers, e.g. in medical and pharmaceutical packaging
- Seeking for possible partners in TABRE_2 with emphasis on RFID solutions

In this study some interesting exhibitors and their products will be presented, divided in five sections, namely:

- Materials for packaging and converting
- Materials for special applications
- Systems, distributors etc.
- Measurement equipment
- Organisations, networks and education

It should be pointed out that this division is not exact and sometimes a company presented could also be regarded to belong to another section.

It should be emphasized that not all companies in a specific branch have been visited. The size of the exhibition does not make that possible. Presented companies should be seen as interesting samples of the fair.

3 Short about FachPack

FachPack is regarded as one of the top European trade fairs for packaging. It covers the whole chain packaging, machine construction, packaging printing and packaging logistics. It has also attracted more and more international (i.e. outside Germany) visitors and exhibitors. The 2013 exhibition had 1440 exhibitors, where 400 were international, and among 34 600 visitors, 21 % were international. Roughly one third of the exhibitors were in the packaging materials and supplies segment. Of these around
half was in flexible and moulded plastics, one fourth in paper based packaging and the rest in various materials such as metal, glass and wood.

The exhibition also had several “Theme Parks”, areas where companies serving similar customers or branches were collected. Examples of Theme parks were “Packaging in Medical Technology and Pharmacy” and “Corrugated Packaging”, see Picture 5.

Together with the exhibition was also The PackBox Forum 2013, which in 35 short presentations and discussion groups gave information on subjects related to packaging.

## 4 Visited companies

Below some of the companies visited and their products are summarized. Some images of exhibited products are shown in Picture 1-22.

### 4.1 Materials for packaging and converting

Several companies showed honeycomb solutions. Some examples are given in Picture 3, 10 and 22.

**Hexacomb Netherlands bv** showed a honeycomb product called Hexacomb® honeycomb, a strong and lightweight material that has two main uses: as a cushioning material in protective packaging, and as a structural component in building and consumer products (see Picture 3).

Hexacomb honeycomb is commonly used as a protective packaging material to provide cushioning and support for large and fragile automotive, glass, industrial goods and furniture prior to shipping. The material is also used as a structural component in household doors, temporary building structures and furniture.

Hexacomb also manufacturers Falconboard®, a graphic display board made from honeycomb that provides a high-quality printing surface for signage and point-of-purchase displays in the visual merchandising market.

Hexacomb is a wholly owned subsidiary of Boise Inc. a packaging and paper company headquartered in Boise, ID, USA.

**Honeycomb Cellpack A/S** from Denmark designs develops and manufactures packaging for the shock-absorption and fixing of products during transport. The company claims that the honeycomb plates could replace Expanded Polystyrene (EPS).

Honeycomb Cellpack packaging is made from a combination of kraft liner and a core with a cell structure – hence the name honeycomb. Die-cut honeycomb is specifically developed and designed to fix and protect a product during transport.
In addition to the individual solutions, they provide a number of standard products for e.g. edge protection, fixing in boxes, filler panels and other things that do not require a special design.

**Forlit s.r.o** from the Czech Republic is a producer of honeycomb paper for use in fixation and padding in protective packaging, but also for use as pallets and lids, see Picture 22.

**TRIDAS, s.r.o.** from the Czech Republic makes use of both conventional technique and thermoforming for production of moulded pulp. They also claim it is a superior alternative to EPS (expanded polystyrene). In Table 1 is a biased comparison between the materials. Humidity sensitivity is for example not mentioned.

**Table 1. Comparison between moulded pulp and EPS.**

<table>
<thead>
<tr>
<th>Material</th>
<th>Molded fibre</th>
<th>EPS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Environmental aspects</strong></td>
<td>Made of 100 % recycled raw materials (paper)</td>
<td>Made of oil-based polystyrene and petrol mixture, pentane-based or carbon dioxide-based agents</td>
</tr>
<tr>
<td></td>
<td>Sustainable product which is fully recyclable, biodegradable and in accordance with ISO 14000 and the European Green Point standards</td>
<td>It is not a biodegradable material, banned in many countries</td>
</tr>
<tr>
<td><strong>Price</strong></td>
<td>Fixed prices of input raw materials ensure lower costs</td>
<td>Prices are closely connected with growing prices of oil</td>
</tr>
<tr>
<td><strong>Protective properties</strong></td>
<td>Excellent vibration and shock absorption</td>
<td>Good vibration and shock absorption</td>
</tr>
<tr>
<td><strong>Storage and transport</strong></td>
<td>Molded pulp is undemanding in terms of storage and transport capacities</td>
<td>Large storage areas and large vehicles needed</td>
</tr>
<tr>
<td><strong>Heat resistance</strong></td>
<td>Resistant to extreme temperatures up to approx. 200°C, all damping properties are resistant to heat</td>
<td>Temperature affects flexibility. At low temperatures it becomes more fragile and at high temperatures its damping properties deteriorate</td>
</tr>
<tr>
<td><strong>Electrostatic properties</strong></td>
<td>Electrostatic neutral material suitable for electronic components</td>
<td>It is usually necessary to add antistatic agents which results in higher prices and a significant environmental impact</td>
</tr>
</tbody>
</table>

**SCA Containerboard** from Obbola presented unbleached and white top kraftliner. They produce more than 800 000 tonnes per year in Obbola and Munksund.

**Mondi** showed both corrugated and specialised products, such as bags etc. Mondi has an integrated paper and packaging value chain covering forestry, production of pulp and paper, and converting. This allows Mondi to provide their customers with a wide range of packaging solutions and creates synergies for the company.
Smurfit Kappa was represented by its German branch Smurfit Kappa GmbH. Smurfit Kappa is one of the large providers of paper based packaging on the European market.

DS Smith was represented by DS Smith Packaging and DS Smith Plastics. DS Smith Packaging provides paper based packaging, especially corrugated board containers. DS Smith Plastics showed examples of secondary and tertiary packages for the pharmaceutical industry, mainly made of polypropylene. In Kaysersberg, France they have 180 employees and 11 extrusion lines.

Metsä Board Deutschland GmbH is part of Metsä Group. They showed a new coated top liner called Modo Northern Light, which they claim has very low tendencies for washboarding and good bulk – excellent performance in corrugating, ideal for microflute, with good strength characteristics. It can be used as a top and reverse side liner and as fluting.

Stora Enso exhibited demonstrators of the latest product developments of speciality papers and packaging boards, e.g. a new liner providing better printing surfaces for packaging and displays and new flexible packaging materials.

Carl Edelmann GmbH is a family enterprise founded in 1913, which develops and produces folding cartons, packaging inserts and system solutions, primarily for the health and beauty care markets. Edelmann produces pharmaceutical packaging, and packaging for premium consumer goods products, especially cosmetics, hair coloration, confectionery and cigarettes, as well as leaflets and labels.

They have twelve production sites worldwide; seven of these production sites are in Germany. The other production sites are in France, Poland, Hungary, China and Mexico.

Rondo AG, Allschwil, Switzerland is specialised in cardboard packaging for the pharmaceutical and cosmetic industry. It belongs to Körber Medipak Systems. They have developed folding boxes with tamper evidence offering first opening verification through perforations in the closing lid that rip off when the folding box is opened the first time. This solution has the advantage of being realized solely by converting the carton which makes it completely independent from the use of additional materials such as glue or labels. In addition the folding box remains recloseable at any time. According to them the Rondo Tamper Evidence solution stands out as one of astonishing simplicity and efficiency. With this solution machine speed will be maintained which guarantees an optimal overall equipment efficiency of the packaging line.

The background for this use is a core requirement of the European Directive 2011/62/EU that will come into force by 2016, which is to equip the outer
pharmaceutical packaging with a tamper evident first opening verification and unique serial number.

**Rondo Ganahl AG** from Austria has one paper mill in Austria and six corrugated board plants in Austria, Romania, Hungary and Turkey. They are specialized in slotted cases, die-cut packaging, displays, cardboard boxes for fruit, fanfold corrugated packaging and direct offset printing. There are high demands on print quality, also on corrugated cardboard boxes for fruits and dairy products, see Picture 14-15.

**Thimm - The Highpack Group** is a family-owned company with six divisions at 13 locations in Germany, Czech Republic, Romania and Poland. The number of employees is more than 2,000 people. The company tries to be full-service on all aspects of packaging from a single source: from advice on the packaging management process, customer-specific development and the manufacture of corrugated cardboard packaging, packaging systems from multiple materials and displays via digital pre-press, selecting the appropriate printing method, assembly and contract packaging services right up to distribution-specific delivery.

**Nefab Packaging Germany GmbH** is a provider of complete packaging solutions. It manufactures collapsible transport packaging and returnable systems, dangerous goods packaging, cushioning systems and inner packaging.

**Novostrat Sp. z o.o.** produces PE and PP foams for insulation and packaging (see picture 22 and 23). They have one factory in Poland (near the German border) and one in Limerick, Ireland. They produce for example bubble wrap, Proplite® (polypropylene foam rolls) and Stratlife® (polyethylene foam planks).

### 4.2 Materials for special applications

**Papierwerke Lenk AG** from Black Forest produces special paper on two machines. The product range covers technical papers, medical papers, food papers etc. The company obtained a patent back in 1916 for production of crepe paper, and crepe papers is still a large product, for example for steam and gas sterilisation.

The product range is:

**Technical papers:**

- Crepe papers for wrapping, insulating and coating and as carrier material;
- Interleaving papers;
- Lamination base papers, carrier papers for flocking;
- Wet-strength, grease-proof, chlorine-free, acid-free, absorbent papers

**Medical papers:**
• MG papers for all common types of sterilization; Crepe papers for steam and gas sterilization; Dental crepe papers

*Kraft papers:*
• All types, bleached, unbleached, coloured: Papers for carrier bags; Gift papers; Lining papers

*Food papers:*
• Bag and wrapping papers; Papers for teabag labels and teabag sachets

*Packaging papers:*
• Masking and packaging papers; Wrapping crepe papers

*Papers for the textiles industry:*
• Coloured crepe papers for the production of textile cores; Transfer printing papers for screen and rotogravure printing

*Envelope papers:*
• Papers for envelopes and mailing bags

**Walki Group Oy** with headquarter in Espoo, Finland produces barrier lining materials and barrier coated board. They also produce Walki®Pantenna, which they claim is the first RFID antenna that offers extensive possibilities for converting and that can be truly customized for the demands of the end use product, from labels to hang tags, single trip tickets and much more.

**International Dunnage A.S.** is an American and Turkish joint venture company, that produces dunnage bags, drop down void fillers, composite straps, edge protectors etc. in Istanbul (see Picture 10 and 11). Many of the products are used in order to minimize shifting of cargo.

**BASF SE** from Ludwigshafen showed E-por® with a patented structure for cushioning in as low densities as 16 kg/m³. E-por is a polystyrene/polyethylene (PS/PE) copolymer. The foam is claimed to be tough-elastic and having a high level of crack resistance and energy absorption.

**Omnipack AG** from St. Gallen, Switzerland is a label producer with all types of labels. The increasing legal requirements for information on labels for food stuff or pharmaceutical products means an increased use of multilayer labels or even labels in form of booklets. Also the demand on secure (preventing fake products) or tamper evident labels is increasing.
inotec Barcode Security GmbH is a large producer of barcodes and RFID labels with head office, manufacturing plant and research and development centre based in Neumünster, Germany. They use photocomposition, thermal transfer and digital printing to produce sequential barcode and 2D code labels. Their range of products includes RFID smart labels, blank labels, metal labels and signs, ceramic labels and library cards. They also implement complete Auto ID solutions for warehouses etc.

Data Elektronik GmbH is an SME (small and medium enterprise) company with employees in many places in Germany. It is specialized in Auto ID and supports their customers in production, logistics and storage and commodity flow questions. It cooperates with some well-known companies in RFID questions, for example Zebra Technologies and Intermec.

Avery Dennison Deutschland GmbH belongs to Avery Dennison Corporation, based in Pasadena, California, which is one of the global leaders in labelling and packaging materials and solutions. It has operations in more than 50 countries and 26,000 employees worldwide. They provide customizable RFID inlays that work with many types of hardware and software, as well as printable (or pre-printed) RFID tags with embedded inlays, mainly used in retail applications.

Jowat AG is a large producer of hot melt and dispersion adhesives for the packaging industry as well as many other applications, such as furniture, textiles etc.

bwz Schwingungstechnik GmbH produces vibration isolators of different kinds. One type of damping system is made of rubber plates in different Shore hardness.

4.3 Systems, distributors etc.

Listed below are some interesting players in different fields of packaging.

Lang Laser-System GmbH makes for example laser perforating systems for micro perforation. For MAP (modified atmosphere packaging) they use CO₂ lasers with high pulse intensity. The applications also include pressure valves for microwaveable packaging.

Lamina System AB from Borås in Sweden showed their sheet to sheet laminating/mounting and gluing machines.
Imapack Stanzformen GmbH from Munich produces steel rule dies for folded boxes, corrugated boxes etc.

Karl Marbach GmbH & Co. KG with headquarters in Heilbronn, Germany is today an internationally operating group with 1200 employees. Marbach has been manufacturing steel rule dies for over 80 years for cardboard, corrugated board, or any other material. Their products are today known as, more or less, an industry standard.

Matthews Brand Solutions claims to be “an integrated expression of the full value chain. The Matthews Brand Centers utilize a streamlined workflow system and state-of-the-art technology to provide a high level of consistency for every single project. From design and strategy to colour and project management, the Matthews’ certified global team works in unison to deliver results that elevate your brand.” Matthews Pharma Center – Munich is dedicated to provide quality artwork production and management services to the pharmaceutical and consumer healthcare industries i.e. highly regulated areas, see Picture 9. They currently have five segregated GMP-compliant production facilities based in the UK, Europe and USA.

Burgopak Germany Ltd offers “innovative packaging design solutions that not only engage brand and consumer, but that are designed realistically for production. Burgopak is a packaging design company offering a full creative service. From concept to production to delivery, we provide structural and graphic design, artwork services, dedicated project management and production.” It is well-known for packages with sliding mechanisms used for promotional packages as well as for pharmaceutical packaging; see Picture 17. They have a special branch called Burgopak Healthcare & Technology, London, which for example developed the patented Chrysalis Carton, which offers a solution to the storage of patient information leaflets (PIL) in packages.

BM-Sensor GmbH offers distributed solutions, systems and products in the field of measurement and energy management, for example humidity or energy measurements at paper production.

Prodinger Verpackung could be called “Germany’s Boxon“. They are located at seven places in Germany and distributor of all types of packaging and packaging parts, such as tape, corner protection, crepe paper, corrosion protection etc.

Antalis Verpackungen GmbH is also a distributor of all types of packaging and packaging parts, quite large in Europe, but also present in Sweden. Other competitors in Sweden are for example Boxon, Papyrus, Christer Nöjd AB and Nyblomgruppen.
Knüppel Verpackung GmbH & Co. KG is also a distributor of all types of packaging and packaging parts.

Westfalia Logistics Solutions Europe GmbH & Co. KG is a specialist for supply chain automation. The company plans, produces and installs automated warehousing, conveying and order-picking systems.

Skanwell Meyer GmbH & Co. KG produces machines and systems for fanfold corrugated.

4.4 Measurement equipment

Peret GmbH develops and manufactures measurement technology to customers in the graphic art industry. They showed Breye Braille Dot Checker (see Picture 1) which is a pocket sized and easy to use device. This handheld USB powered reader captures a 3D image of the Braille dot and sends the image to a PC. The software then analyses characteristics of the Braille dot, the image providing a visual interpretation whilst the software measures height, base diameter and distances between dots, at the same time collecting data and calculating statistics, which is used for quality reports on the Braille.

The Breye Braille Dot Checker can be used to control the Braille in three areas: (1) On the press, (2) after gluing, (3) in the QA department.

Creasy – The Crease and Fold Analyzer is a new hardware and software system to measure and document the dimensions, angles, and symmetry of the crease and the bead (Picture 2). This aids in proper setup and offers process control to the production run. Creasy is a handheld camera-based measuring system connected to a PC running the analysis and reporting software. A wide range of measurement functions aids the operator in achieving proper setup at the first break or the finished box.

Rycobel NV is a large distributor of testing equipment from Belgium. They showed some interesting test equipment for leakage tests of packages, see Picture 7-8.

LDS Europe GmbH produces equipment for leak detection testing with special emphasis on food and pharmaceutical industry, where the demands are high.

The vacuum chamber is coupled to mass spectrometry technology; making leak testing to $10 \times 10^{-9}$ mbar litre/s possible. It is considered bacteria and virus tight when the leak rate is less than $10 \times 10^{-8}$ mbar litre/s. Examples of test which could be performed is stress free test of flexible packaging without applying forces to seams.
4.5 Organisations, networks and education

In Germany, there are (as in Sweden) many different partner/network or lobbying organisations, promoting the members’ business as well as giving statistics and arguments for their use. Many of them in the packaging area were present at FachPack.

**Verband Vollpappe-Kartonagen (VVK) e.V.** situated in Darmstadt, gives branch information about carton board and solid board packages.

Examples of other organisations present were Verband der Wellpappen-Industrie e.V. and Verband Deutscher Papierfabriken e.V.

**Bayern design GmbH** situated in Nürnberg, have been started since “long-term success in the market can no longer be achieved without market-oriented strategies, clear product language and positive differentiation vis-à-vis the competition. For market success, design is a key factor”.

The main goal of Bayern design GmbH is to develop the sustainable enhancement of the design quality of Bavarian products and services so that Bavaria becomes a premier site for innovation and design of international renown.

All programs and activities of Bayern design GmbH are sponsored by the Bavarian Ministry of Economic Affairs, Infrastructure, Transport and Technology.

As the central contact for Bavarian companies – particularly for the middle market – Bayern design compiles, coordinates and supports all design activities in Bavaria and promotes Bavaria as an important factor for success. In doing so, Bayern design takes into consideration the regional economic competences of the seven government districts, demonstrating new perspectives for each of the industries and paving the way for the fruitful blend of design into corporate strategies.

**Packaging Valley Germany e.V.** is a regional centre located in Baden-Württemberg in Germany. It was founded in 2007 and is today an industrial structure of around 35 packaging machine manufacturers and their suppliers, see Picture 12-13.

**Packaging Excellence Center (PEC)** is also known as Packaging Excellence Region Stuttgart e.V. It is a competence centre for packaging- and automation techniques, supported by Wirtschaftsministerium Baden-Württemberg.

**IPI International Packaging Institute** in Schaffhausen, Switzerland was founded by some well-known companies of the packaging industry – Amcor, Bosch, Nestlé, SIG, Unilever – as education, networking and service centre for the packaging industry. They train packaging experts and connect the packaging industry. IPI offers a part time
Master study program in packaging technology, various expert seminars in specific subjects like sealing, sustainability, material selection and efficiency of packaging lines.

**Hochschule der Medien, Stuttgart** has 15 Bachelor’s degree programmes and 6 Master’s degree programmes, a part-time MBA, and a doctoral programme. Stuttgart Media University covers a broad spectrum of media expertise: from printed media to electronic media, from media theory to media production, from media design to making media available.

**Fraunhofer-Institut für Materialfluss und Logistik (Fraunhofer Institute for Material Flow and Logistics)** in Dortmund is one of the 80 institutes of Fraunhofer-Gesellschaft throughout Germany, with totally 17 000 employees. The FhG-IML has around 190 employees as well as 250 post-graduates and students with pre-diploma, supported by colleagues in workshops, laboratories and service areas. With 120 partner companies as well as 11 educational and research institutions the EffizienzCluster LogistikRuhr is currently the biggest European research project in logistics. Its Open-ID center has development and test environment for the use of RFID-technology in the logistics and RFID-performance tests.

**IKA Institut für Konstruktionstechnik und Anlagengestaltung, Dresden**, is an institute specialised in process simulation systems.
Pictures from FachPack 2013:

<table>
<thead>
<tr>
<th>Picture</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="3288" alt="Picture 1" /></td>
<td>Breye Braille Dot Checker from Peret.</td>
</tr>
<tr>
<td><img src="3289" alt="Picture 2" /></td>
<td>Creasy – The Crease and Fold Analyzer from Peret.</td>
</tr>
<tr>
<td><img src="3291" alt="Picture 3" /></td>
<td>Honeycomb solution for fixation of products.</td>
</tr>
<tr>
<td><img src="3292" alt="Picture 4" /></td>
<td>Pal-Box® is a corrugated container with integrated pallet.</td>
</tr>
<tr>
<td><img src="3293" alt="Picture 5" /></td>
<td>Theme Park “Corrugated Packaging”.</td>
</tr>
<tr>
<td><img src="3294" alt="Picture 6" /></td>
<td>Antalis Verpackungen GmbH is one of the large distributors of all types of packaging materials.</td>
</tr>
<tr>
<td>Picture 7. [3296]</td>
<td>Instrument for testing seal strength by blowing up the package (Rycobel Group).</td>
</tr>
<tr>
<td>-------------------</td>
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</tr>
<tr>
<td>Picture 8. [3298]</td>
<td>Non-destructive leak testing with vacuum from Rycobel Group.</td>
</tr>
<tr>
<td>Picture 10. [3300]</td>
<td>Honeycomb as drop down void filler from International Dunnage A.S.</td>
</tr>
<tr>
<td>Picture 11. [3301]</td>
<td>International Dunnage A.S.</td>
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<tr>
<td>Picture 12. [3302]</td>
<td>Packaging Valley Germany e.V.</td>
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</tbody>
</table>
Picture 13. [3303] Packaging Valley Germany e.V.

Picture 14. [3304] Corrugated cardboard boxes for fruits and dairy products from Rondo Ganahl AG.

Picture 15. [3305] Corrugated cardboard boxes for fruits and dairy products from Rondo Ganahl AG.


Picture 17. [3308] Packaging design by Burgopak Germany Ltd.

Picture 18. [3309] Foams from Novostrat Sp. z o.o.
### Picture 19. [3310] Foams from Novostrat Sp. z o.o.

### Picture 20. [3311] Example of transport packaging.


### Picture 22. Honeycomb from Forlit s.r.o., Czech Republic.
5 Discussion

The aim of the FachPack visit was to get more insights on the packaging markets supporting the development of Focus Area “Materials for packaging”. Out of the 1440 exhibitors roughly one third was in the packaging materials and supplies segment and one fourth of these were in paper based packaging, which is the main interest of Innventia.

Future research was discussed with paper, board and package producers to get input to the next Innventia research program, especially the proposal “Boosting Transport Packaging Performance”, and learn more about the market.

A to a large extent new market for Innventia is medical and pharmaceutical packaging. Security and safety aspects are important topics in order to defeat the large amount of counterfeit. Therefore also the legislation is becoming stricter, for example concerning new requirements on serialisation and tamper evident first opening verification.

A third area of much interest is RFID. The project TABRE_2 is currently being planned and will have an emphasis on RFID solutions and partners in that area are being sought.

Another trend which could be noticed were the increasing demands on print quality also on corrugated used for transport packaging. Examples were shown on corrugated cardboard boxes for fruits and dairy products.
6 Innventia Database information

Title
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Abstract
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Keywords
corrugated board, exhibition, packaging, paperboard, pharmaceuticals, quality control, RFID

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