



Taghleef Industries

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A World of Outstanding Solutions



- ▶ PSL111 The Newest Face in the Pressure Sensitive Label Market
- ▶ SynDECOR Gains Momentum in China
- ▶ BoPP Films for Cheese Packaging
- ▶ DERPROSA™ Main Sponsor of Luxury and Packaging Awards



PACKAGING INNOVATIONS

Dear Customers, Colleagues and Allied Suppliers,

With even more determination, all of the actors in the BoPP industry, from resin suppliers to brand owners, are fighting to maintain their share of value in a world where commodity markets are moving into uncharted territories. All of our means are at work, and include utilizing regional units to overcome competitive threats, adding capacity to gain efficiencies, and securing business with the help of industry partners. Concurrently, we continue to manage insecurity in many regions, while addressing some temporary capacity imbalances, currency shifts, the volatility of oil prices, and the costs of ancillary services.



Under this context we remain on course, as 2014 has been yet another building year where Ti has led the industry with a continual stream of investment, and in particular, we strategically positioned ourselves into new, lower cost capacities, expanded our multilayer capabilities, and acquired new coating know-how and assets. In the same timeframe, Taghleef initiated direct representation into Kuala Lumpur, Malaysia, as we continue to make measured progress throughout Asia. Our objective of these efforts is to make Ti a more attractive supplier to both regional and global players in the market.

As we enter the new year of 2015, we have reinforced our conviction to our strategy, which enables us to offer a complete range of products and services on all continents for Food Packaging, Labeling and other technical applications. This approach, we trust, will benefit our customers around the world, while generating growth and momentum for Taghleef Industries.

I wish to all of you a happy and successful new year.

Dr. Detlef Schuhmann
CEO Ti Group

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Barriers for Food Packaging

Essentials for Freshness, Taste and Shelf Life.

Food Protection is the key to freshness for every food distribution chain. BOPP films are providing already high moisture barriers. Metallized BOPP Films have even a lower WVTR and are widely used in snack applications. Food packaging however demands much more protection against:

- **Flavors**
- **Oxygen**
- **Mineral Oils**

Ti has developed a wide portfolio of coextruded BOPP barrier films. The films are containing a continuous, non-interrupted barrier layer providing a high protection, which is superior to other known barrier BOPP films, and is very efficient to use.

Flavor Protection

For packaging chocolate, chewing gums, tea and other sensitive products, a flavor protection is required to either keep the aroma in the pack or to protect against undesirable flavors from the outside. Due to their unique manufacturing technologies, EXTENDO films deliver superior protection against the strongest flavors like mint and limonene.



Oxygen and Gas Barriers

For perishable food stuff like sensitive bakery products, MAP packed food, or proteins such as meat and cheese, barriers are required against gases like Oxygen, Carbon Dioxide and Nitrogen. EXTENDO films offer contiguous oxygen barriers from an OTR of < 0,1 up to 18 cm³/m²/day.

Mineral Oil Barriers

The public discussion about mineral oils in foodstuff is in full swing. It is expected that there will be a regulation starting next year in Germany followed by an EU regulation for specific migration limits for MOSH (saturated hydrocarbons) and MOAH (aromatic hydrocarbons). Tolerable limits in the product, according to current discussions, are: < 0.6 mg / kg (MOSH) and < 0.15 mg / kg (MOAH). As an example, for potato chips: at a surface-to-product mass ratio of 80 dm²/kg, the preliminary limits are reached with an EXTENDO film (type XFWL) after 1,7 years compared to 1,6 years for BOPET films. Metallized or coated films do not reach these values.

(Report from IVV Fraunhofer Institute, Freising, Germany can be downloaded from www.ex-tendo.com)

Furthermore, EXTENDO barrier films are robust in production and enable the highest productivity. Please do not hesitate to ask us for a personal meeting to tailor the barrier packaging for your product.

Note: All barrier values mentioned are underlined by measurements from independent leading institutes.



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Thermoforming Technology for IML

As the technology of in-mold labeling is adopted across the globe, so then, the technologies themselves evolve. Today, several T-IML systems are in the market; one “early adopter” of this technology in the USA is **Tech 2**, and this technology is now spreading. For wide adoption of new labeling technology, innovative and reliable suppliers are required. Two great suppliers in this area are the world’s leading IML label printers, **Verstraete IML**, and **Illig**, a classic German engineering systems supplier. *Ti*’s T-IML film, named **LFE65**, is the film of choice. *Ti*’s successful collaboration with these leading co-suppliers brings the market an “integrated solution”, backed by experience, reliable products, innovative designs, creative high quality graphics and great service to support new projects and business development.



A Smooth Finish for Thin Wall Containers

Ti is proud to be the first to market with a high yielding I-IML film, which delivers brand owners with a smooth finish when using thin walled containers. It is fitting that **Inland**, the leading USA IML printer (renowned for pioneering CIP technology in IML), and **Airlite Plastics**, who has delivered the first I-IML ice cream containers in USA, are providing an “Integrated IML solution” in collaboration with *Ti*.

While “orange peel” finishes are popular, the market is evolving. Brand owners trying to differentiate themselves require more selections and choices than just a single finish. Brand owners are now selecting a superior “satin finish”, and the film of choice is **LIH 50**. Smooth quality containers have always been high gloss and more typical in large container markets. But now, brands packaged in smaller, thin walled containers may adopt the smooth finish.





BACTERSTOP

A Special Antibacterial BoPP Film

Ti exhibited the Bacterstop film technology, under Taghleef's recently acquired Derprosa brand, at the Smart Mart "Store of the Future". The Smart Mart was a new Label Expo effort to spotlight emerging technologies and novel ideas. Ti's Bacterstop technology was selected above many other candidates due to its unique capability to kill bacteria that may come in contact with the specially designed label films.

The anti-bacterial technology embedded in the film enables the label to eliminate 99.9% of the bacteria that comes into contact with the surface of the film*. Using the Bacterstop film in either a PSL over-laminate or outer web of a roll fed lamination, not only provides a barrier against any contagion, but also exposes the full surface of the label for anti-bacterial function. Users of such films in laminations are able to combine the benefits of other trusted Ti labels films on the inside web - for excellent bonding, printing, and label dispensing performance. The anti-bacterial protection works repeatedly after multiple handlings*, up 12 months, and the film can be supplied in matte or gloss versions, which gives brand owners more graphic design choices.

Printers may choose several thicknesses of the Bacterstop film, which is currently available in a glossy 24 μ , or a 27 μ matte version, for thermal laminations. Thinner films, such as glossy 12 μ and matte 15 μ , can be supplied for PSL over-laminates or roll fed applications. Thermal laminations for menus, book covers, instruction manuals, leaflets and flyers may now benefit from Bacterstop protection. Ti is proud to offer such unique and innovative ideas into many applications and brands that use PSL or Roll Fed Labeling technologies in the market.



**An external report by an independent laboratory determines the antibacterial activity of film formulations against Escherichia Coli and Staphylococcus Aureus using ISO 22196:2007.*

The Newest Face in the Pressure Sensitive Label Market

At the recent Label Expo Americas, Taghleef Industries launched the newest face stock film for the Pressure Sensitive Label Market...**PSL 111**.

PSL 111 is a top-coated, voided white face stock designed for optimal labeling performance. This cavitated white opaque film, with a pearl-essence finish, provides a dense opacity and outstanding graphic appeal. Taghleef's proprietary top coating technology allows for excellent ink adhesion utilizing a variety of printing processes, including digital. The highly treated, adhesive receptive surface offers excellent PSA adhesion, and utilizes a broad range of chemistries to enable resealable/removable and permanent applications. Taghleef is currently launching the product in North America and will be rolling out the availability of the film to the other regions of the world in the next few months. Whether you are looking for a white, high opacity, self adhesive label face stock for a leading shampoo brand, or a stiff label film for a hand applied tire label application, Taghleef Industries is producing a film to meet your critical and unique requirements.



Digital IML Labels with Xeikon

IML Labels has partnered with **Xeikon** and *Ti* to offer outstanding service and flexibility in high quality graphics and short run IML labels. Both *Ti* and IML Labels participate in the non-exclusive Xeikon Aura program.

Ti offers a range of films for digital IML, from the smooth finish of **LIH** to the superior “satin finish” of **LIM**.



IML Labels

IML Labels is the largest IML label printing company in North America whose dedicated specialty is **In-Mould Labels**. The first pure IML printing plant was established in 2006 in Montreal, Canada. Being dedicated to **fully integrated IML solutions**, the business flourished.

IML Labels builds close working relationships with their customers, which are based on trust and openness. This approach leads to outstanding quality of their products and services, as well as having an intimate understanding of specific IML needs and requirements.

In support of IML market expansion and strategic initiatives, such as local supply and logistical contingency, a second facility has been constructed, which is **based in Chicago**.

Because they have multiple printing plants, in combination with their capabilities, such as exclusive in-house digital capability, *Ti* is proud to be an **integrated IML solutions provider** with IML Labels. Through **IML Labels**, Taghleef Industries’ full range of “best in class” IML films deliver a wide range of options for the finished container look.





Clear Barrier Films from *Ti* Americas

The Association for Packaging and Processing Technologies, Pack Expo International 2014 drew record-breaking crowds of more than 50,000 for the November 2-5, 2014 exhibition in Chicago. The trends that were central to this year's show included lifestyle, sustainability, food safety, design and convenience. All of these themes reflect the growing need of innovation to engage consumers across the world.

Ti had a "clear" focus at this year's show, where we displayed our clear barrier films, HXB, HBTX & UHX, and the applications into which these products are used. One of these applications was 'Roons™', where we displayed and distributed a cross promotional package of the tasty treat. The barrier and clarity properties of our films were big discussion topics, and the 'Roons™' served as a snack for more than a few of the show attendees. Many came back to make sure they were still fresh the next day!

Jenn Topliff and her father set out to find the perfect package to preserve their macaroons or 'Roons™' in just-baked condition for as long as possible. Four potential packages were put through a rigorous shelf life protocol that involved tastings every week. At the end of 6 weeks, the *Ti* entry of 80 HXB / ink / adh. / 88 UHX was the only candidate still meeting their freshness quotient, so this package using the films

from *Ti* was chosen. The structure was presented to three west coast converters, and ultimately, the Revere Group of Seattle, Washington was chosen as the best converting fit for this start-up business. Mark Revere, the owner of Revere Group, is very pleased with the clarity, printability and the bond strength of the lamination. They had been using a similar structure for other confectionery customers, and are now actively pursuing other potential applications that can benefit from the excellent moisture and aroma barrier properties that this film combination can provide.

UHX and HXB are excellent barrier films for snacks, baked goods, confectionery items, dried fruit and nuts. *Ti* Americas has developed a valuable addition to the barrier film market, and remains on the cutting edge of product development in meeting the ever changing industry trends.



Latin America More and More Customers

Trust in Films from *Ti*



As the region's flexible packaging grows at double digit rates, our *Ti* Specialty and High Value sales continue to grow, and we are now in 23 Latin American countries! Taghleef Industries' extensive product line, consistent quality, and unmatched international delivery systems continue to gain new customers for us.

Ti now has an established sales force, on a country by country basis, with extensive flexible packaging knowledge to immediately respond to customer needs. Because of *Ti*'s expertise, access to information & data, and application development capabilities delivering real time solutions, technical, commercial, and development personnel at both converters and end-users place trust in our technical sales & service personnel.

Ti in Latin America also has dedicated R&D personnel, and laboratories with test and pilot line equipment, to assist our customers as they use our films. Testing seal strength, barrier parameters, comparative structure analysis, accelerated weathering, and labeling performance data are examples of the services provided to our customers.

Our technical sales team meets regularly with R&D and plant personnel to review the extensive product line at *Ti*, seeking the right product for given applications and keeping abreast of our LatAm customer needs. This team approach is how our new films, such as ZEM 17 and 15 micron, were developed.

Taghleef Industries Inc. looks forward to our continued growth as we build trust with our customers in Latin America. Repeat orders come when customers know what to expect.



From left to right: Octavio Ortiz (Colombia), Juan Francisco Vercellino (Chile), Jaime Araujo (Brazil), Fernando Alvarez (Chile), Karla Olivo (Mexico), Cristina Moctezuma (El Salvador, Guatemala), Sundeep Mudgal (Ti Oman), Eugenio Vives (Ti Central America & Caribbean), Janina Lamourtte (Dominican Republic), Christiane Tardy (Ti North America- R&D), Roberto Gollmann (Ti Latin America), Abjihit Ghosh (Ti Middle East R&D), Gustavo Gavidia (Peru), Carlos Arce (Bolivia), Brian Bellafore (North America Technical Service), Juan Carlos Solano (Costa Rica, Honduras)



SynDECOR® Gains Momentum in China

September 25, 2014 was a special day for Nanjing, China and the furniture industry. It was not only the inaugural international conference for “Next Generation Decorative Panel Production”, it also involved the product launch and licensing ceremony for Watershed®; a revolutionary decorative laminate based on Taghleef’s SynDECOR®.

The objective of the annual Conference is to continue to build a useful exchange of technologies that will benefit manufacturers of decorative laminates and panels in China and around the World. More than 60 people from 35 companies attended the Conference in Nanjing. While professionals, within the industry, highlighted the deliverables of superior decorative laminates and the opportunity for superior performance and appearance of engineered wood-based panels, there was also a special emphasis on the health and environmental impact of laminates and panel production. Guest speakers included Andy Feury (Western Pacific Plastics/ WPP), Ron Rodeck (Taghleef Industries Inc.), Dr. Du Qingping (Kleiberit), Dr. Xu Xinwu (Nanjing Forestry University) and Ms Feng Jianhua (President of Jiangsu Furniture Entrepreneurs Association). Following the morning technical session, Mr. Tao and his Team from Nanjing Fulgurant Wood Industry & Technology Co. Ltd hosted the invitees with a tour of his new manufacturing and laboratory facilities highlighting the laminating and off-line UV coating operations designed to deliver the next generation panel production based on Watershed.

Watershed is a culmination of years of effort; harnessing the resources of Taghleef Industries and its SynDECOR films, WPP and its technical and marketing knowledge, strong relationships with allied suppliers such as Kleiberit and Barberan and, very importantly, strong innovative entrepreneurs like Mr. Tao. While everyone agreed that this program is off to a strong start, there is also consensus that it will only continue to strengthen as more information is exchanged and the supply chain continues to work together. Taghleef Industries is proud to be part of this innovative development in the global future market.



Group photo of the Conference attendees; Nanjing, China



Dr. Du Qingping - Managing Director, Kleiberit - China



Ms. Feng Jianhua - President of Jiangsu Furniture Entrepreneurs Association



From left to right:
Mr. Tao Fuchun - General Manager, Nanjing Fulgurant Wood Industry & Technology Co. Ltd,
Mr. Andy Feury - Partner, Western Pacific Plastics LLC,
Mr. Li Xinyu - Zhejiang Yongcheng Printing Co. Ltd.,
Mr. Ron Rodeck - Taghleef Industries Inc.,
Mr. Joe Ko - Marketing, Western Pacific Plastics - China



Nanjing Fulgurant Wood Industry & Technology Co. Ltd.



Surface Print Metallised Films *Ti* Leveraging Quality for Customers in Asia Pacific

Multinational food companies have been successfully introducing new snack offerings into Asia Pacific utilising brightly packaged single serve snack packaging using high quality *Ti* Asia Pacific ZSA28 metallised BOPP for many years. These fun, bite size portions of western snacking favourite chocolate brands employ inviting surface printed graphics to complement the appeal of *Ti* Asia Pacific metallised films.



Taghleef Asia Pacific is now upping the ante by offering ZMB28 - a medium barrier surface printable metalized film for additional protection against oxygen and moisture. Taghleef believes end-users and converters will value ZMB28 for their high print fidelity and additional flavour protection. Taghleef, Asia Pacific ZSA28 and ZMB28 metallised films add further value by simplifying procurement and stocking decisions, as they can be used for both cold seal and heat sealable monoweb applications.

Arnott's 150 year Celebration

In 2015 Arnott's will celebrate 150 years of supplying Australia - and the world - Australia's favourite biscuits. Tracing a straight line from the first bakery, established in 1865 in a coastal city north of Sydney, Arnott's rightly recognizes themselves as a piece of Australia's history. But beyond just history, Arnotts is a vital part of the Australian economy.



According to the company's website, Arnott's has purchased over \$3 billion in raw ingredients and services "from local farmers and businesses over the past decade."

Taghleef's Wodonga site has been supplying films to Arnotts for over 25 of these 150 years. The supply relationship with Arnott's is among Taghleef's closest partnership.

Mission Foods



Mission Foods is one of the world's largest manufacturers of tortillas and flatbreads. With a 101 manufacturing plants worldwide, and a presence in 113 countries, Mission Foods are leaders in the industry with high quality products and constant product innovation. In 2008, Mission Foods opened their purpose built plant in the Melbourne suburb of Epping. *Ti* have been supplying packaging films to Mission Foods from the beginning, and have shared a long partnership together.

As Mission Foods continues to expand globally and into new categories, it is increasingly important they stay ahead of their competitors in all facets of their business, including packaging. Because of this, Mission Foods is always on the lookout for innovative packaging materials and designs. "Our supply partners, such as *Ti*, are critical to the success of our products across both our retail and foodservice ranges", said Erin-Jade Watson, Mission Foods National Marketing Manager. "We believe premium packaging is essential to ensure our customers receive quality Mission products."



Eye-Catching In-Mould Labels. *Ti* Films are Used on the Latest IML of **Leading Brands in SEA**

A collaboration between Beauty Label and Packaging Sdn. Bhd and Taghleef Industries (*Ti*) has yielded an attractive, yet cost effective, in-mould label (I-IML) solution for one of the leading margarine and specialty fats brands, 'Naturel' from Lam Soon Group. The label exceeded stringent design, processing and packaging requirements. The IML film grade used is LIL70 supplied from *Ti*'s plant in Australia, designed especially for markets in ANZ and the SEA regions.

Today, *Ti* offers the widest portfolio of films both for injection molded and thermoformed containers. The solid core films range extends from ultra clear, to matte clear and white films. The voided white films deliver from high gloss to smooth to satin and even orange peel post mold finishes. Designers can choose many container finishes for a wide variety, from large containers

like paint pails and buckets with high gloss finish, from solid white films to "satin" finish for margarine containers, to "orange peel" for stadium cups. Ever increasing demand and focus is on metallic IML look.

The superior graphics of Injection IML labels is often perceived as more costly than other labeling technologies. However, as an example, I-IML containers have no release liner waste (as in PSL). In case of mis-printed, direct print container, the whole container is rejected. Also, I-IML containers offer 5 sides decoration capability (bar codes at the bottom), leaving design freedom (using highest quality graphics) for brand owners on the consumer facing sides and lids.

Lam Soon Group's business activities include plantation/milling, refining of cooking oil, manufacturing of margarine, specialty fats, soap, detergents and oleochemicals. With strong brands and with extensive sales & distribution network, Lam Soon Group is also recognized as a major fast-moving consumer goods (FMCG) player. The Lam Soon brand is a leading household name in Southeast Asia.

Beauty Label and Packaging Sdn. Bhd. from Ipoh, Perak, Malaysia specializes in both customized label and packaging printing that complies with world-class market requirements and standards. Beauty Label provides a comprehensive range of label technologies from self-adhesive labels to wet glue labels, injection in-mold labels, packaging boxes, metallized look prints and packaging. The range makes Beauty Label a one-stop solutions provider that stays on top of the latest trends in printing technology.





▶ LTG: A Clear Innovation in Transparent Labels

As part of our consistent approach in upgrading our product lines, in order to offer additional value to the industry, *Ti* has announced the launch of a new grade of transparent label film for wrap around labeling (WAL). This new film, **LTG**, is an extremely clear film, which exhibits a no-label look on the bottles with its improved optical properties. The film is designed for both conventional inks and UV printing, which is the system being utilized today in the current market applications.

The LTG film offers improved mechanical properties, reduced & consistent COF, as well as very high antistatic characteristics. LTG has been embraced by the water & beverages industry in the Middle East and Levant markets. Digital Labels in Jordan was one of the early adopters and partners in the qualification progress at many multi-national companies.



▶ D407: All-Around Performance

In line with continual change and sophistication in the world of converting, increasing speed has become the norm to address the economic challenges that converters continue to face. As a champion of industry-friendly solutions, *Ti* has developed a new transparent, heat sealable BoPP film for high speed printing and unmatched packaging performance.

The D407 film has exceptionally high surface energy, which makes it suitable for high speed printing applications, and is compatible with all printing ink technologies. Due to the superior optics and high gloss, the film provides excellent aesthetic appeal to any package for better differentiation on the shelf.

D407 may be printed with solvent-based, water-based, extended gamut, EB or UV inks, where instant ink adhesion off the press is guaranteed. The printed D407 film can be used for extrusion lamination as well, including in-line. D407 offers a wide heat seal range, along with low and consistent COF, which is desired by food companies utilizing high speed packaging lines.

Property / Condition	D407
Heat Seal Range	100°C - 140°C
COF (NT/NT)	0.18 – 0.23
Treatment	50 dynes, Long Retention
Static	< 5 KV
INK	All Inks, Reduced Consumption

Blood Donation Drive

Blood, as unique it is, remains in constant demand for accident victims, hemophiliacs, surgical patients, infants, patients battling cancer and many others.

Due to this critical need in the world, blood donation organizations and centers are of great value in meeting these needs. As part of our Community Initiatives, the *Ti* Oman staff supported a blood donation drive held at Sohar Hospital, in Sohar, Oman on October 3, 2014.



We'd like to thank everyone who donated and participated in such a needy and worthwhile cause.



Speciality Films & Flexible Packaging Global Conference - 2014, Mumbai



Abdul Rasheed,
Assistant Sales Manager Ti LLC

The participation of *Ti* had an impact at the 3rd Specialty Films and Flexible Packaging Global Conference-2014, which was held at the Grand Hyatt Hotel in Mumbai on September 25-26, 2014. This conference was attended by over 750 participants, which represented 350 companies from over 21 Countries. Abdul Rasheed, from the *Ti* Sales office based in Dubai, was one of the speakers at the conference who focused on the theme "Global Packaging Trends with BOPP films".

The conference was an exclusive platform for the "who's who" of flexible packaging and converting to gather and interact within other representatives of the food manufacturing industries in India. As the only global manufacturer of

BOPP films in attendance, *Ti* led the discussions on global innovations concerning BOPP films and their adaptation into the Indian market based on our insight into their local market needs. Flexible packaging consumes approximately 3 million metric tons of polymers each year, and is valued at about US\$8 billion. BOPP film commands the highest growth rate out of all leading substrates, and is used often in the 20% growth within the food manufacturing sector.

This conference was the ideal platform for *Ti* to reach out an Indian audience and present our packaging solutions, such as shelf life improvement, reduced cost within our processes, and increased care for the environment.



From left to right: Chandan Ghatak, Chief Finance Officer - Abhijit Ghosh, Group Technical Service Manager - Abdul Rasheed, Assistant Manager Sales (AMEA) - Arun Kumar Nair, Business Development Manager (India) - Sundeep Mudgal, General Manager (Ti Oman)



Marching with a **New Ally** in South Africa

South Africa is a highly strategic market for *Ti*, as we focus to deliver our specialized products, while coupling that portfolio with our dedicated local service groups, which have always had a mandate to serve the packaging industry. As part of the changing dynamics of the market, *Ti* has been a front runner in service excellence, although we have not been domestically located. Establishing the *Ti* bond store in Durban, just one year ago, was a natural step in this progression. *Ti* has worked, hand in hand, with the local partners who have enabled this transition to be possible. Today, after 11 years of long standing association, Flexible Packaging & Exporting Company has handed over the mantle to BOPP Packaging Solutions (BPS), a subsidiary of the **West African Group**.

Established 22 years ago, West African Group has been engaged in distribution of Polymers, Rubber and Chemicals in South and West Africa. With nine warehousing facilities in South Africa, as well as one in Zimbabwe, West African Group is well equipped in driving *Ti*'s efforts in servicing the flexible packaging industry in Southern Africa. This association will reenergize *Ti*'s mission in widening the customer base, enhancing the service levels with existing customers, as well as expanding into neighboring markets.

Flexible Packaging Solutions for Tea Packs

Besides water, tea is the most widely consumed beverage in the world. For over 50 years, the company **El Arousa Tea** has been a pioneer in tea manufacturing, serving the Arabic and European countries, and is one of the largest producers in Egypt. *Ti* has partnered with **El Arousa Tea** on a brand new project: The packaging of a vacuum tea pack, where we were to replace a PET/Foil/PE structure. *Ti* has developed a new film, **DZ406**, which is a high barrier metalized film, with both sides treated. The DZ406 was proposed, and successfully tested, as it is suitable for multi-layer (3+) sandwich laminations. The new vacuum tea pack is now produced with TSS/DZ406/PE, whereas our DZ406 replaced the aluminum foil, and the TSS replaced the PET film.

There are multiple applications for the DZ406:

- Low concentrated ketchup sachets
- Shampoo sachets
- Powdered tea vacuum packs for one year shelf life packs.

And in all of the above product structures, the DZ406 successfully passed the following tests:

- Shelf life from 15 to 18 months, specifically in the shampoo sachets
- Barrier properties
- Product weight change of packaged product
- Compatibility with the product contents
- Packaging feasibility on the production machine
- Laminated material properties.



FlexoPrint flexible packaging & labels Introduces Printed IML in Morocco with Taghleef

FLEXOPRINT is the new born activity of the DIRECTPRINT GROUP.

DIRECTPRINT was created in 1996 in Casablanca, Morocco to serve the Moroccan market with high quality offset and digital printing. The owners, Mr. Younes BENCHEKROUN and Anas CHRAIBI, have entered the flexible market recently with the company FLEXOPRINT. This new entity is equipped with a brand new HD UV flexo press, which allows them to follow the successful path of DIRECTPRINT. They provide innovation, integrated pre-press activities, high quality printing and finishes, flexibility and reactivity, while also delivering all sorts of packaging for the food industries.

Today, FLEXOPRINT has successfully launched the first printed IML using the *Ti* film LIM. The LIM film is a white-cavitated, 5 layer BoPP film for injection in-mould (I-IML) polypropylene containers, which gives outstanding mechanical and optical performance in printing and injection moulding applications. Proving their success in this new enterprise, FLEXOPRINT received the innovation award for their IML printing technology at the latest edition of CFIA Morocco this past September. *Ti* is proud to be part of this great evolution in the Moroccan packaging market while we pursue our commitment to this market.



Say “CHEESE”!



Cheese is one of the highlights of French cuisine and is part of people’s everyday diet. French people are the biggest cheese consumers with a yearly consumption per capita of 26.2 kilos in 2012. 96% of French people eat cheese; nearly half of which on a daily basis. With a yearly production of nearly 2 million tons, of which 1/3 is exported to 150 countries, the variety is wide with more than 1,200 types of cheese across 8 categories: Soft Bloomy/Flowery Rind, Soft Washed Rind, Natural Rind, Fresh, Fresh Soft, Blue-Veined/Blue, Hard Paste, Double and Triple Cream.

French people spend 7% of their food budget on cheese, which represents about 42% of their dairy expenses, and of which 75% is purchased from supermarkets. With such a large range of products, market size and share that is sold through supermarkets, the packaging remains an important part of the equation to face competition and to ensure a good exposure and quality of the product. This is one of the missions of **Richard-Laleu**.

Established in 1904, in the heart of a region well-known for its cheese and butter tradition, **Richard-Laleu** specialized in the packaging of dairy products. Their know-how led them to become a leading supplier of the largest multinational companies in this sector with 25% share established overseas. They also diversified into other types of packaging, such as sleeves, laminates, lids, and IML for the food industry in general, while also offering products for cosmetic and industrial applications. Today, they share with us their knowledge on this specific market.

The use of BoPP films has become a naturally perfect option in cheese packaging. Like in many other applications, BoPP films are a cost effective solution, and combine improved machinability, as well as superior printing and slitting performance, as compared to PE films. More specifically for cheese packaging, BoPP films offer bi-directional folding capability, flexibility in micro-perforations, and a choice of paper with which to laminate to regulate moisture loss, which is a primary concern in cheese packaging. Therefore, BoPP films allow extended shelf-life by balancing oxygen and moisture content. With cheese being a living product, which evolves in taste and texture over time with the work of bacteria, the BoPP packaging works as a maturing cellar, where the gas created in the maturing stages needs to evaporate to avoid stale odors.

BoPP films are available in many aesthetic options, such as matte, white opaque, metallized and glossy finishes. Richard-Laleu uses films primarily from *Ti*, such as MUS, ZSK and WSS, where their traditional structures include glue strips laminated to BoPP/ wax paper, BoPP/ Paper, thermal or cold glue applications, and thermal or cold perforation.





Derprosa Film Renamed *Ti* S.L.U.

In May, 2014 Taghleef Industries Group closed the transaction to acquire Derprosa Film, and on 1st November, 2014 the company has changed its name to **Taghleef Industries S.L.U.**, thereby adopting the new corporate identity of the *Ti* group.

Being conscious of the brand equity that the Derprosa name had created for its products in the **Graphic Arts** business, *Ti* has decided to use the name of DERPROSA as a **brand name** for this segment. A new logo and tagline have been created :



Taghleef Industries S.L.U.



The websites www.derprosa.com and www.derprosadeluxe.com will stay active. The Derprosa Food Packaging and Label Films portfolio will be harmonized and promoted under the Taghleef Industries trademark.

Synergies in Labels with Deprosa™ Graphics Arts Films



Luxury brands seek to capture market share and value through differentiation and connection to their customers. The graphics arts industry knows this intimately. Labeling technologies such as PSL, Roll Fed and IML are increasingly used to support this branding quest. For this reason, the trait-d' union of Derprosa's Graphic Arts capabilities combined with Taghleef's labels films and experience provides the opportunity to offer unique solutions and labels products that can make the difference:

- **Antibacterial protection (Bacterstop):** Deliverable in lamination films with a gloss or matte finish, but with a protective surface which kills 99,9% of critical bacteria on contact. Ideal for personal care and hygiene brands.
- **Luxurious SoFT TOUcH surfaces:** The peachy surface feel of packaging for segments such as cosmetics packaging, high end electronics boxes, spirits cartons and others, can now be considered for other brands who want their Roll fed or Pressure Sensitive Labels to communicate feelings of luxury, smoothness and superior qualities of their brands
- **Anti-Scratch and Graphics Enhancement:** Expensive and luxurious packaging is not easily scratched and does not lose graphics pop - or else sales are compromised! So using Derprosa's Antiscratch and Metalized Enhance films maintains highest quality and even 3-D graphics effects shining through. A powerful marketing tool indeed.

So step into *Ti*'s wide world of labels films and graphics arts films; bring big ideas and powerful brands of differentiated films to your finger tips.

Neuromarketing Applied to Luxury Packaging

This past September, during COSMEETING, a show for cosmetics packaging in Paris, the Brain House Institute Director, Antonio Ruiz, presented a study of neuromarketing applied to luxury packaging with SoFT TOUcH® by Derprosa. Neuromarketing is a discipline through which selected psycho-physiological measurement variables (such as brain activity, heart rate, electro-dermal response, etc.) are studied for the effects emotions provoke to predict customer behavior. Selected people have been subjected to different scientific tests, objectively and without any prior conditioning or influence, where the following aspects were analyzed:

- a) The tactile experience of Derprosa's SoFT TOUcH®
- b) Emotional impact on the consumer



Luxe Pack Monaco, October 27- 29, 2014

For the 5th consecutive year, Derprosa attended Luxe Pack Monaco (France), the world trade fair for creative packaging that targets the perfumery and cosmetics brands. The show was a huge success, with experts from TOP luxury brands visiting our booth, and our interaction with many direct and indirect customers, such as designers, brand consultants and marketing agencies. Our latest innovations were presented:

- QUARTZ Elegance White
- QUARTZ Elegance Gold Gloss
- QUARTZ Elegance Gold SoFT TOUCh®
- SAPHIRE Anti-Scratch Gloss



Ti S.L.U. Commercial team: Joaquín M. López Batlles (Mktg & business Development); Roberto Correa, Moira Bentoglio, Oscar Hernández (Regional & Area Sales Managers); Ignacio S. López-Baillo García (Global Sales & Marketing Director)

Packaging Innovations Madrid, November 5-6, 2014

Packaging Innovations is one of the most important packaging shows in Europe, with different editions in England, Germany, and the Netherlands. This year was its first edition in Spain, with Derprosa not only participating as an exhibitor, but also sponsoring the IPA AWARDS during the show. Derprosa's customers also had the opportunity to participate in a competition to determine the best laminated packaging using one of Derprosa's films. The winner this year was ALZAMORA PACKAGING. The Derprosa film used in their packaging was SoFT TOUCh®.



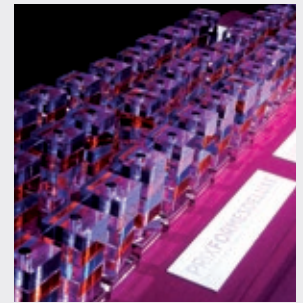
From left to right: José Ángel Medina, Managing Director of Taghleef Industries S.L.U. presenting the IPA award to José María Berga, Alzamora Packaging Commercial Director.

- c) Evaluation of the bio-physiological reactions that are experienced while touching the product.
- d) Comparison of these results with those produced by the same product not using this SoFT TOUCh® material.
- Results were conclusive, as products laminated with SoFT TOUCh® are 70% more likely to be chosen, as they provide 275% more emotional intensity, and an increase of 247% in positive emotions. Most of the attendees admitted that it was the first time they had heard of "emotional cosmetics", and that such emotions could be measured.

Prix Formes de Luxe

The presentation of the Luxury Packaging Awards took place in Monaco during the Luxe Pack Exhibition, where attendees representing the most significant luxury brands in the market were present at the event. As was the case during the previous three years, Derprosa was the 2014 Official Sponsor.

Patrick Desies, Chief Sales & Marketing Officer of Taghleef Industries Group, presented some of the awards, outlined his vision of the innovation in packaging, and unveiled the Derprosa film that had been used in the lamination associated with the gift given to all attendees: RUBY Digi-Stick SoFT TOUCh.



Patrick Desies, Chief Sales & Marketing Officer, Ti LLC

Policarta Develops Recyclable Paper-BOPP Laminates

Policarta srl (www.policarta.it / www.policartainternational.com) has recently introduced a newly patented technology, which opens new opportunities for recycling of flexible packaging laminates.

The invention, called NoW™ (“No Waste”), allows consumers to dispose of paper-based, multi-material laminates into the existing paper collection system, and opens new opportunities for paper-based multi-material packaging, for which recycling has always constituted an issue. NoW™ laminates are designed to be processed in the existing paper recycling plants, where all the different substrates can be easily separated and, consequently, recycled.

Taghleef Industries and Policarta cooperated in the development of a laminate made of 70g/m² coated paper + 15 micron metalized BOPP, which thanks to NoW™ technology, obtained the certificate for recyclability according to the recently introduced ATICELCA 501/13, UNI EN 643 and INGEDE 6-2009 norms. Tests have been performed by Stazione Sperimentale Carta, Cartoni e Paste per Carta in Milan.

This packaging structure can be widely used in packaging of food products requiring barrier to moisture and oxygen, such as biscuits and salty snacks.

NoW
no waste



Meeting with Our Customers

This past autumn a meeting was held in Hungary with our customers in the beautiful, southern town of Pécs. Here we celebrated the latest upgrade to the largest production line of *Ti* Hungary, which has improved the production capability, and more than doubled the output of our 5 layer specialty BOPP films. In addition to the official meeting program, our guests had the opportunity to visit a variety of local sites, including Cella Septichora, one of the nine Hungarian UNESCO world heritage sites that is listed in the category of a cultural-historical architecture, and of course, the cathedral of Pécs. The event took place in the Villány wine region, where our customers were able to taste the original Hungarian cuisine pálinka, as well as the locally famous wines. To close the festivities, everyone enjoyed a gala dinner, and capped the evening with a very dynamic folk-dance exhibition, presented by a local dance-group, as we danced into the night with a lively party. We look forward to hosting our customers again in Hungary!





PCD Packaging of Perfume Cosmetics & Design
Paris, France - February 4th & 5th 2015
DERPROSA™ & NATIVIA™ @ **Stand CA13**
Conference Speaker : Paolo Serafin
"Towards more sustainable Packaging Solutions"
chaired by L'Oréal Professionals



AWA IMLCON™ & IMDCON 2015

Miami, FL, USA
Feb 18-19, 2015
Table Top Display & Sponsor
Conference Speaker: Duncan Henshall "Innovation in IML"



CFIA

Carrefour des Fournisseurs de l'Industrie Agroalimentaire
Rennes, France
March 10-12 2015
Hall 2 Stand 2C9



Ti Aura Partner



ANUGA FOOD TEC Food Processing Packaging/
safety/ingredients/Services & Solutions
Cologne, Germany
March 24-24 2015
Hall 8 Stand C18/D19



AWA International Sleeve Label Conference & Exhibition 2015

Miami, FL, USA
April 29-30, 2015
Table Top Display & Sponsor



World Tobacco North America 2015

Greater Richmond Convention Centre, Virginia, USA
May 12-14, 2015
Booth B10



Chinaplas 2015, The 29th International Exhibition of Plastic and Rubber Industries

May 20th ~23rd, 2015 - China Import & Export Fair Complex,
Pazhou, Guangzhou, PR China
Asia's No. 1 & World's No. 2
Plastics & Rubber Trade Fair



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