

Packaging

SOUTH ASIA

The Magazine for Modern Packaging



Sakata Inx India speaks about inks suitable for food packaging



The rise, fall, and rise, of SB Packagings



240 WorldStar winners from 36 countries



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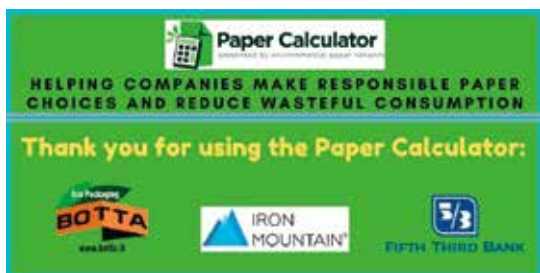
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■Botta's Paper calculator

Sustainable paper packaging

As part of Botta Packaging's ongoing commitment to reducing their customer's environmental impact and sustainability missions, they have introduced Environmental Paper Network's Paper Calculator, version 4, to showcase the potential impact reductions of using their recycled, eco packaging products.

The environmental impacts of virgin paper and virgin cardboard production include deforestation, the use of large volumes of energy, water and chemicals, air pollution, and waste problems. Each tonne of recycled paper created uses 100% fewer trees, 31% less energy, 53% less water, and 39% fewer pounds of waste.



Botta uses the Paper Calculator, widely recognized as the most credible, transparent, and independent calculator of environmental impact estimates for a wide variety of paper choices, to raise awareness of the environmental impacts of paper choices. It is supported by a broad coalition of non-profit conservation organizations and other stakeholders.

Botta chose to use the Paper Calculator as it provides independent, scientific calculations based on the entire life cycle of the different papers, from sourcing to the end of life. In addition to carbon savings, the calculations indicate savings in wood use, energy consumption, water usage, and solid waste production.

By using transparent, third-party calculations, Botta can show the potential impact reductions of using recycled paper compared to virgin paper in packaging. Therefore, helping their customers understand the benefits of making more sustainable choices.

■Growth of med film to 2028

Medical packaging films CAGR 5.1%

Medical devices are involved in various aspects of healthcare and as a result their manufacturing processes and the packaging that covers and protects them are essentially different. It is estimated that 10% of medical device recalls are due to failure in packaging and of these over 30% are due to a hole in the packaging.



The stringent regulations for better and enhanced packaging of pharmaceutical and medical products and equipment have resulted in the design and development of a variety of medical polymer films. These films prevent a product from moving or escaping from the enclosed package and also provide protection against environmental factors such as contaminants that can enter the package and cause damage to the products.

Newly developed flexible films have increased the scope for medical applications owing to their advantageous properties such as easy handling and storage, cost-efficiencies, and enhanced consumer convenience. Their inherent barrier properties with the addition of coatings, film types, and other manufacturing methods, improve their attributes significantly.

In recent years, the healthcare industry has replaced various conventional metal and glass packaging with high-barrier packaging films using single polymer structures, metallized films, and a wide range of specialized coatings. These technical enhancements can comply effectively with regulatory policies and reduce overall costs. Advancements in medical packaging films have improved properties such as resistance to radiation, good

tear strength, enhanced dimensional stability, and resistance to water vapor and chemicals.

■Saving 20 kilolitres of water everyday

UFlex Chemicals new facility

Driven by the aim of attaining water sustainability and reducing consumption and pollution, the Chemicals production unit of UFlex situated in Noida is now a Zero Liquid Discharge (ZLD) facility. ZLD is a strategic wastewater management system that ensures no industrial wastewater discharge into the environment, so UFlex has proactively adopted this technology to significantly reduce their freshwater consumption by recognizing the importance of wastewater purification and recycling. The Chemicals plant that has adopted ZLD technology has started saving close to 20 kilolitres of water a day.

UFlex's Chemicals business develops eco-friendly, sustainable and food-safe compliant inks, adhesives, coatings and biodegradable packaging solutions such as primers, barrier, gloss and heat-seal coatings ecologically conscious with a lower carbon footprint. While UFlex has been making a conscious effort to bring down the use of water while developing these solutions, with the implementation of the ZLD technique, the plant has ensured that no liquid waste is eliminated and maximizes water usage efficiency.



Sustainable feature

The zero liquid discharge Chemical plant uses a 100% supply of effluent treated water of Sewage treatment plant (STP) and Effluent treatment plant (ETP). It is subsequently treated through the combination of tech-

nologies like Membrane Bio-Reactor (MBR), Reverse osmosis (RO), and Agitated Thin Film Dryer (AFTD). The permeate good quality water, the final product derived, is thus reused in boiler feed, cooling tower makeup water, and fume hoods without being discharged into the municipal sewer, thereby putting the discarded water back to use. The rejected water is converted into solid waste residue through the evaporation process, which is in turn discarded as hazardous waste (as per the regulatory norms).

Expressing his delight on this new development, Rajesh Bhasin, Joint President, Chemicals Business at UFlex, commented, "At UFlex Chemicals, we are proud to announce that our Noida production has achieved the status of a zero liquid discharge facility. We have adopted this technology to contribute positively to the environment by considerably reusing and recycling wastewater to save groundwater consumption. It is a big move for us to reduce our overall water consumption and ensure that wastewater does not get discarded into the environment. We are working hard to follow the circular economy model at our facility and systematically implement environmentally conscious means so that we can conserve our natural resources for the future. Progressing further, we look forward to implementing the ZLD technology in our other production facilities to contribute towards a sustainable future."

■ Ipack-Ima – 3-6 May 2022

Pharmintech Life Sciences 2022

On 10 March 2022 in Milan, a press conference was held with previews of the special edition of Pharmintech powered by Ipack Ima, the international exhibition dedicated to processing and packaging technologies for the pharmaceutical, parapharmaceutical, cosmeceutical, nutraceutical, medical device and biotechnology industries scheduled from 3 to 6 May in Milan, Italy.

The event will take place concurrently with Ipack-Ima, which at Fiera Milano showcases excellence in processing and packaging for the food



and non-food industries.

The conference was attended by Sergio Dompé, executive president of Dompé farmaceutici and president of Pharmintech who comments, "The pandemic has shown that technology and research can give great acceleration to life sciences, turning health into the milestone of growth. If we will manage to leverage the historical opportunity of the recovery and resilience facility, giving priority to competitiveness and merit and avoiding the dispersion of resources, Italy and Lombardy can multiply the success stories capable of competing on a global level. However, we must focus on two fronts – cutting-edge research and interdisciplinarity, because it is through synergies with the world of artificial intelligence, digital and material sciences that the most innovative solutions will emerge. In this context, Pharmintech is an important hub capable of accelerating the entire ecosystem through the meeting between the pharmaceutical industry and the world of research and universities, as well as providing an opportunity for suppliers of advanced technologies and solutions to compare."

Giorgio Bruno of AFI, after reiterating the importance of the positive synergy between trade fair operators and technical-scientific organizations active in the chemical-pharmaceutical field, highlighted the importance, in a strategic perspective, of the relationship between the Italian leadership in the production of pharmaceutical technology. He added that the return to an important international event such as Pharmintech, with which AFI

has been collaborating for several editions for the coordination of technical-scientific contents.

Concerning contents and events, the conference was attended by the main partners of the event who anticipated the themes that will enrich an exhibition panorama with over 150 companies specialized in the Life Science sector.

Alberto Bartolini representing AFI outlined the elements of the opening event of Pharmintech scheduled on 3 May. The focus will be on the world of healthcare, including pharmaceuticals, medical devices, nutritional supplements and the cosmeceutical market, with an emphasis on regulatory convergence and supply chain management.

Lucia Ceresa for PDA presented the conference entitled 'Smart Factory: Industry 4.0 applications in parenteral manufacturing', scheduled for 5 May, which will bring together equipment manufacturers, technology providers and pharmaceutical companies in a debate on digitalization and innovation with significant case histories and applications.

Enzo Lacchini anticipated the contents of the conference proposed by ISPE, in collaboration with Confindustria Medical Devices, which on 6 May will explore the paradigm shift in the sector, in the light of the new Medical Device Regulation (MDR) and the new In Vitro Diagnostic Device Regulation (IVDR).

Lastly, Gian Paolo Crasta of UCIMA focused on the sustainability of consumer goods supply chains, the main theme of "Packaging Speaks Green",