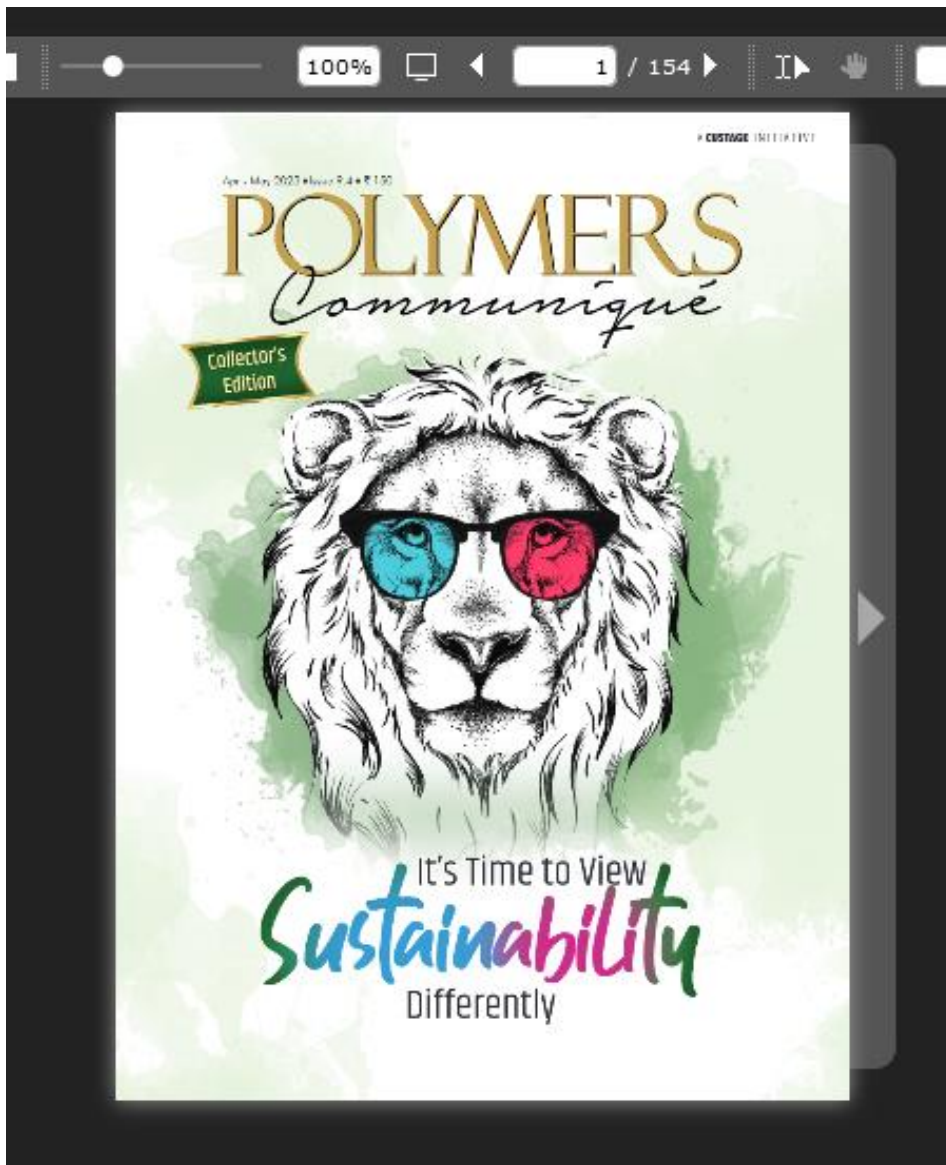


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**Digest**

Industria Chimica and Entha Chimica visiti through the exhibition with PPT and packaging

NEOS Plasticoni visiti the exhibition with PPT and packaging

Imnova Film visiti the exhibition with PPT and packaging and food materials with a free sample kit of (free pack 20)

Building IT is not a luxury, it's a necessary management system

I-K



**Narrowing Machinery Unveils the Pinch Fold Bottom Machine for the BOPP Woven Bag Market**

On 29th September, 2020 (EAST), the international exhibition dedicated to the technologies, materials and solutions for the entire BOPP woven BOPP exhibition already opened its operations as high for one of the industry's key milestones.

Events of interest participating for the first time in exhibiting after making a few initiatives on the website of the exhibition of the event and the success of operation in listing activities followed on it.

Registration is still open and the objective is to bring more than international operators and visitors to (EAST).

The 2021 edition will again focus on three sub-sectors of industrial BOPP: dedicated to the world of outdoor (3D BOPP) based on active manufacturing and brand technology, and (EAST) for innovation (EAST).

We going to be new projects, new brands and new content of the technology showcase for the goods and stable industry, (EAST) 2021.

With its narrow Pinch, the machinery designed specifically for the woven bag industry. It has already been a pioneer in open the industry for producing solutions such as the new woven sack, carry machine, into, space, machine, food, bank, energy, machine, and laminating & coating lines for various applications. Furthermore, our experience in



Engineering has allowed us to capture a significant market share for its machines on manufacturing. We are grateful to our loyal customers, who have enabled us to continuously improve and evolve. We are now equipped to install and showcase another one of our latest products, the Pinch Fold Bottom Machine. The machine enables the making of BOPP woven bags from the bottom, streamlining the need for stitching the existing bag top in previous operations, which we believe will shape the future of the BOPP woven bag market. ■

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land and its uses. However, the shared responsibility of the industry, producers and processors is to make a future for discussing this subject and make relevant decisions on manufacturing and shipping address used in plastics.

#### Addressing the Anonymity of Plastics: Traceability and Labeling

To address the serious problem of plastic and its uses, we must resolve another problem: the anonymity of plastics. A key barrier to improving the management of plastics is the lack of effective and sustained traceability along and across value chains. Our ability to trace plastics has been limited by various barriers, including the ease with which we can identify them contained in other material streams such as paper, wood, textiles, cotton etc., which results in the recycling rates of the latter materials being better than plastics (refer figure 3). In recent years, the ability to trace plastics has considerably improved. One of the objectives of all tracing technologies is to embed information into the plastic itself in such a way that it can be easily and reliably read out at the end of its use cycle. Three broad technologies are emerging for including the identity and improving the traceability of plastics. These are spontaneous, incorporating of plastics, incorporating small molecule dyes or fluorophores that more accurately describe the composition of the plastic, and physical labeling through surface topography that can withstand the materials end use cycles. A company, Equinox, has placed digital watermarks in association with the European Brands Association, the size of postage stamps, which can be detected using a high-resolution camera for the emerging camera that may power handheld in-camera traceability is chemical labeling, using supramolecular synthetic polymer incorporated into commercial plastics and providing appearance analytical techniques to read out the information. The science behind such approaches has made substantial progress in the past decade; however, many challenges remain in translating this science into everyday applications.

With more advanced solutions emerging, we can use existing mature technologies to improve the traceability of plastics. Since packaging is one of the most important uses of plastics, we can

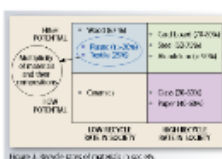


1. The first responsibility of the industry is to take the initiative in creating a set of evidenced and understood obligations that truly include a plastic's structure and composition as well as its ease of recyclability and end-of-life prospects.
2. Tracing responsibility for plastics by their producer and processor is to create a forum for discussing the subject and make informed decisions on manufacturing and shipping solutions for plastics.
3. The third responsibility of the industry is to improve, expand, fill and transparent disclosure of plastics and its constituents to enhance consumer awareness and enable more informed decisions on how to handle plastics at the end of life.

use digital branding technologies to embed information about a plastic on the packaging itself. Such data should share us of the structure and composition of the plastic, the properties, activities used in the plastic, suggested manner of disposal and recycling, as well as the final destination of the plastic. Thus, the third responsibility of the industry is to progress towards full and transparent disclosure of the plastic and its constituents to enhance consumer awareness and enable more informed decisions on how to handle the given plastic at its end-of-life. Transparency in plastic product labeling must reach the same level of maturity that has been achieved in pharmaceutical or food products.

#### The Importance of Collaboration and a Multidisciplinary Approach

Many questions remain to be answered. What



information should be embedded. How long the information needs to remain available, what is an acceptable cost of coding plastics, which codes should be provided for coding, and what are appropriate read-out technologies should be are just some of these questions. This will require additional research and development between academia and industry. The dilemma of plastics waste is a global challenge that requires urgent intervention and concerted efforts linking academia, industry, finance, government and civil society. Many concert approaches need to focus

on single issues like waste management, separate recycling, innovation in recycling or spreading waste generation. Still, however, a system-level, multidisciplinary strategy is necessary if we are to implement effective and long-lasting solutions to the staggering amount of plastic waste accumulating in our environment and maximize the impact of science and non-chemical plastics technologies and systems to improve the identification and traceability of plastics towards common critical components of the strategy.

#### References

1. Weinger, H., Wang, Z. and Hillberg, S. Deep dive into plastic resources, addition, and processing jobs. *Environmental Science & Technology* 52(11), 5074-5081, DOI:10.1021/acs.est.1c03636.
2. Johnson, P., Chandra, S., Farrow, J.C., Ingo, A., Albin, S., Bost, A., Bost, T. and Bannister, L. Using polymer polymer chemistry for plastics traceability and governance. *Plastic Chemistry* 10(7), 1330-3600, DOI:10.1039/c9py00080g.



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