



# Plastic Tomorrow

Bi-Monthly Magazine, Bi-Language English & Gujarati Plastic Industry Periodical

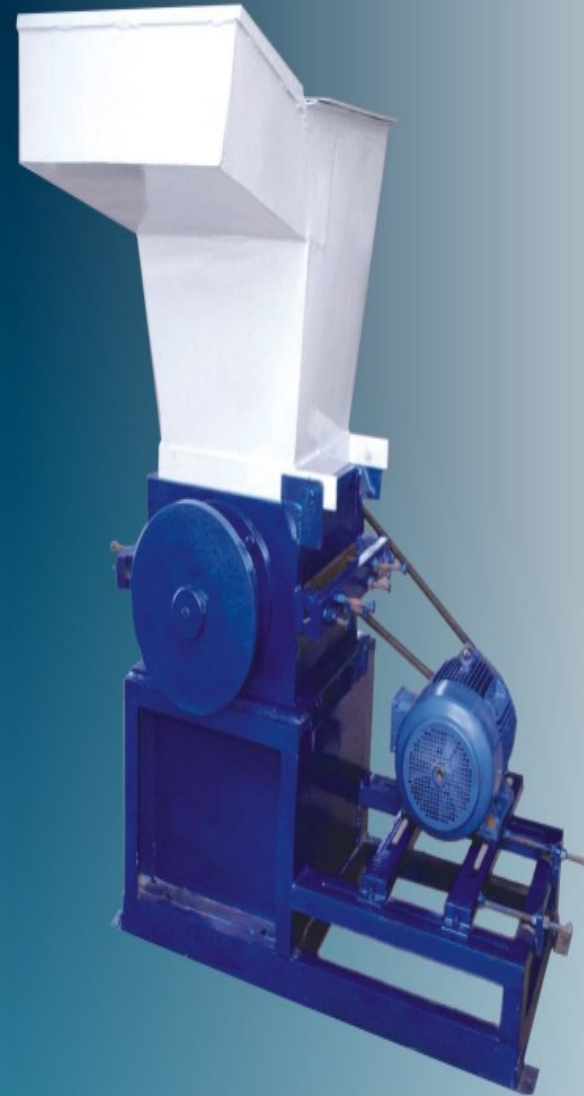
Editor : Dinesh J Shah, Vadodara, Gujarat, India | Mob.: +91 9327 344 559 | 9426 334 455 | Email : [plastic tomorrow@gmail.com](mailto:plastic tomorrow@gmail.com) | Page : 32

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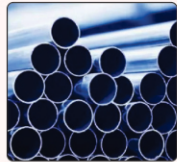
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# Online Rotogravure Printing Machine



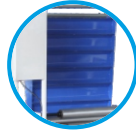
## Application:

- ▶ LD HM Liners
- ▶ Carry Bags & Shopping Bags
- ▶ Garbage Bags
- ▶ Compostable Bags
- ▶ PP Liners or Bags

## Features:



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Drying Blower Facility



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Main Shaft Power Transmission Facility



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## Technical Specification:

Model Name	Min. Print	Max. Print	Min. Print Repeat	Max. Print Repeat
OLP 16	150 mm	400 mm	250 mm	660 mm
OLP 22	250 mm	550 mm	250 mm	660 mm
OLP 28	250 mm	700 mm	250 mm	660 mm
OLP 32	300 mm	800 mm	250 mm	660 mm
OLP 42	380 mm	1060 mm	380 mm	760 mm
OLP 52	380 mm	1320 mm	380 mm	760 mm
OLP 62	500 mm	1570 mm	500 mm	880 mm



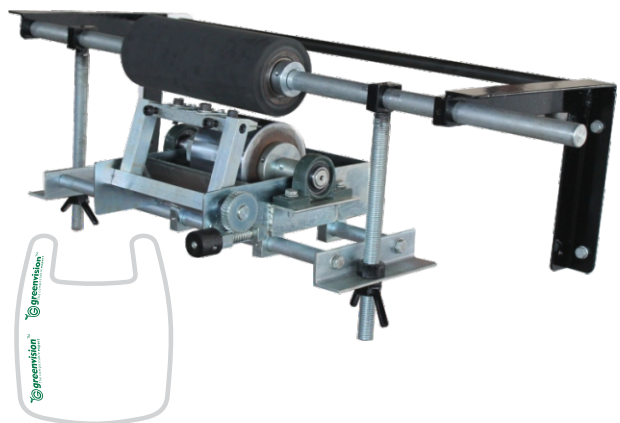
# Online Mini Rotogravure Printing Unit

## Application:

- ▶ Warning Signs
- ▶ Company Information
- ▶ Film Specification
- ▶ Product's Material Property Details
- ▶ Legal Informations

## Features:

- ▶ Rotogravure Cylinder Based Concept
- ▶ Sharp Printing Quality
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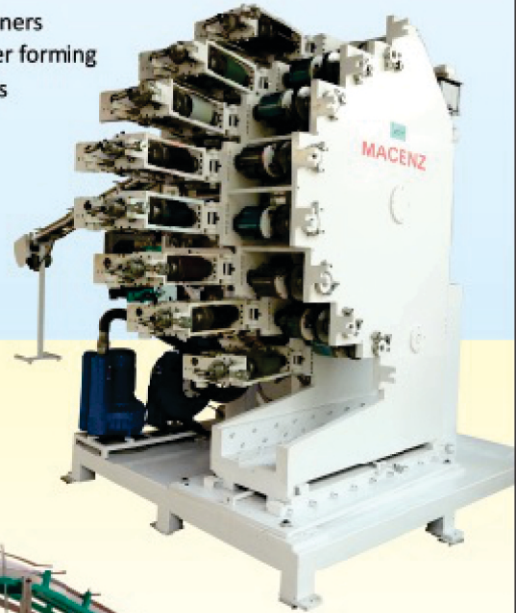
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**Prevention**

Be a responsible citizen

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# AMERICAN CHEMISTRY COUNCIL AWARDS SOLVAY-PARTNER FOR INDIAN SUSTAINABLE GUAR INITIATIVE



Progress beyond

Solvay's partner in the Sustainable Guar Initiative, non-profit organization TechnoServe, has received the External Collaborator Award from the American Chemistry Council (ACC), for its commitment to working collaboratively with ACC members and others throughout the guar supply chain to drive

sustainability and innovation.

The Sustainable Guar Initiative is an integrated program implemented by Solvay and its partners in collaboration with TechnoServe to teach and promote sustainable agricultural practices, and encourage women empowerment among guar bean farmers within the Bikaner desert district in Rajasthan, India. This program provides benefits upstream and downstream for our partners across the value chain, improving the livelihood of guar bean farmers by ensuring income durability and protecting local resources while considering the impact climate change has on their activities. This is an exemplary model for inclusive business and accelerates our Solvay One Planet commitment under our Better Life pillar.

The Sustainable Guar Initiative was initially set up in 2015 by Solvay, L'Oréal, TechnoServe, and Hichem, a Solvay joint venture and guar manufacturer, with Henkel joining the partnership in 2017 which increased the number of Indian farmers involved in the project to over 7,300 in 2020, 25 percent of whom are women.

"We are pleased that TechnoServe has been recognized for their inestimable contribution to the success of our Sustainable Guar Initiative by offering strong local expertise, on-the-ground involvement, and market analysis," said Anne-Charlotte Butrot, Sustainability Project Manager at Solvay. "TechnoServe has been the enabling partner for Solvay and its international collaborators providing farmers training for land and seed treatment, improving crop cultivation for arid conditions, soil replenishment techniques, and rainwater harvesting systems to enhance crop yields. The program also focuses on women empowerment through the management of kitchen gardens and health and nutrition

training."

Solvay is a world leader in guar derivatives and India provides about 80 percent of the world's total guar production, where farmers play an integral role at the top of the supply chain. The seeds are processed to obtain guar gum, an exceptionally fine thickener and stabilizer used as an eco-friendly solution in a range of industries such as personal care and cosmetics.

"Assisting Solvay and their partners to bring to fruition this commendable initiative to transform the lives of guar bean farmers in poor communities has been a very rewarding experience," said Punit Gupta, Country Director, TechnoServe India. "Small farmers in India face numerous challenges ranging from soil quality, scarce water supply, and lack of access to markets for their crops. With a specific focus on women farmers to help them improve well-being, nutrition, and gain economic independence, we provided the tools and resources for improving yields, thereby helping enhance revenue to raise their standard of living."

#### About Solvay

Solvay is a science company whose technologies bring benefits to many aspects of daily life. With more than 23,000 employees in 64 countries, Solvay bonds people, ideas and elements to reinvent progress. The Group seeks to create sustainable shared value for all, notably through its Solvay One Planet plan crafted around three pillars: protecting the climate, preserving resources and fostering better life. The Group's innovative solutions contribute to safer, cleaner, and more sustainable products found in homes, food and consumer goods, planes, cars, batteries, smart devices, health care applications, water and air purification systems. Founded in 1863, Solvay today ranks among the world's top three companies for the vast majority of its activities and delivered net sales of €9 billion in 2020. Solvay is listed on Euronext Brussels (SOLB) and Paris and in the United States, where its shares (SOLVY) are traded through a Level IADR program.

**For more detail.**  
**[www.solvay.com](http://www.solvay.com)**





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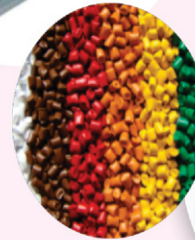


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# SOLVAY LAUNCHES NEW SHORTSTOP INHIBITOR SOLUTION FOR SAFER ACRYLIC MONOMER TRANSPORTATION AND STORAGE

**Formulated to stop runaway polymerization effectively and economically with a non-toxic solvent**



Progress beyond

Solvay has developed Phenothiazine LVT™ 2330, a next-generation shortstop inhibitor solution available globally and designed to protect against runaway polymerization of acrylic and methacrylic acids, esters and other monomers in bulk storage facilities, transportation tanks and containers.

A runaway polymerization is potentially hazardous due to the reaction becoming uncontrollable and the heat that it produces may lead to a fire or an explosion or rupture of closed storage and transport containers. This uncontrolled polymerization can place people, property and the environment at significant risk.

“Solvay’s new Phenothiazine (PTZ) LVT 2330 comprises a thirty percent active liquid solution of PTZ dissolved into RhodiasolvPolarclean HSP1 solvent, part of Solvay’s line of powerful, green solvents for industrial applications,” said Dave Vanzin, Technical Service & Development Manager at Solvay. “It was developed as an alternative to the use of N-Methyl-2-pyrrolidone (NMP) widely employed in the USA and the EU as a solvent for shortstop inhibitors but considered a substance of very high concern (SVHC) under REACH regulations.”

Solvay’s Phenothiazine LVT™ 2330 is safer to handle than NMP containing solutions



and it also has a lower freezing point, which is highly advantageous for facilities and transport in colder climates. Also, the high active PTZ concentration of Phenothiazine LVT 2330 permits deployment and storage of the efficient and economic shortstop in both large and small installations.

“We see a great market potential for this pioneering shortstop inhibitor with a non-toxic and non-volatile solvent for the acrylics markets in North America and Europe, where chemical toxicity is of increasing concern to the industry and authorities,” said Lars Fischer, Worldwide Technical Market Manager at Solvay. “However, Asia offers the greatest potential where shortstop inhibitors were not standard and have only recently been more widely accepted and used to help reduce the risk of accidents.”

For more detail.  
[www.solvay.com](http://www.solvay.com)



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# VPF USES MONDI'S WORLD-FIRST SUSTAINABLE RELEASE LINERS FOR THEIR LABELS

- Mondi has announced the first commercial application of its paper-based EverLiner M R, partnering with German adhesive label company VPF
- Close collaboration led to the launch of the world's first range of label laminates created from recycled paper
- EverLiner M R is being used for VPF's laminate, significantly reducing the CO2e footprint compared to standard liners



Leading global packaging and paper group Mondi has partnered with German manufacturer VPF, an expert in self-adhesive materials and coatings, to create the world's first sustainable release liner range made from recycled paper.

VPF committed to make their labels more sustainable by producing them from recycled materials. In a next step, they wanted their release liners to also be made of recycled materials and collaborated with Mondi to make this possible. Mondi used their customer-centric EcoSolutions approach to support VPF's sustainability commitment, and with Mondi's EverLiner M R, all the components of VPF's label laminates are now made from recycled materials.

Mondi's EverLiner M R was launched in February and is the first machine-glazed release liner with 70% recycled content on the market. As well as using less fresh fibres, it is available with FSC®[1] or PEFC-certified paper and significantly reduces the CO2e footprint compared to standard liners. This means EverLiner M R is a more responsible release liner solution for labels, tapes, envelopes, and industrial applications.

Working closely together to test and trial VPF's transition to EverLiner M R, enabled the new solutions to be rolled out on existing production machinery.

Holger Steinbach, Technical Director VPF, says, "The functionality and performance of Mondi's EverLiner with our adhesive labels range is comparable with a conventional liner, and the

product helps us achieve our sustainability goals. This is just one step in our eco-journey, and we are committed to creating products that work better for our planet. By partnering with Mondi we can now be confident that our whole offering is the most responsible one available for our wide range of customers."



Vincenzo Pierro, Business Development Manager Labels, Mondi adds, "As a development partner of VPF, we worked closely with the team from the outset, offering a sustainable release liner alternative with no need to change the silicone system, and creating products that are effective, yet reduce the environmental impact. By using our EcoSolutions approach, we were able to ensure a smooth transition and a successful product launch for a more sustainable solution and are proud to be launching this world first in labels."

Learn more about our EcoSolutions approach here and our sustainable release liner portfolio here.

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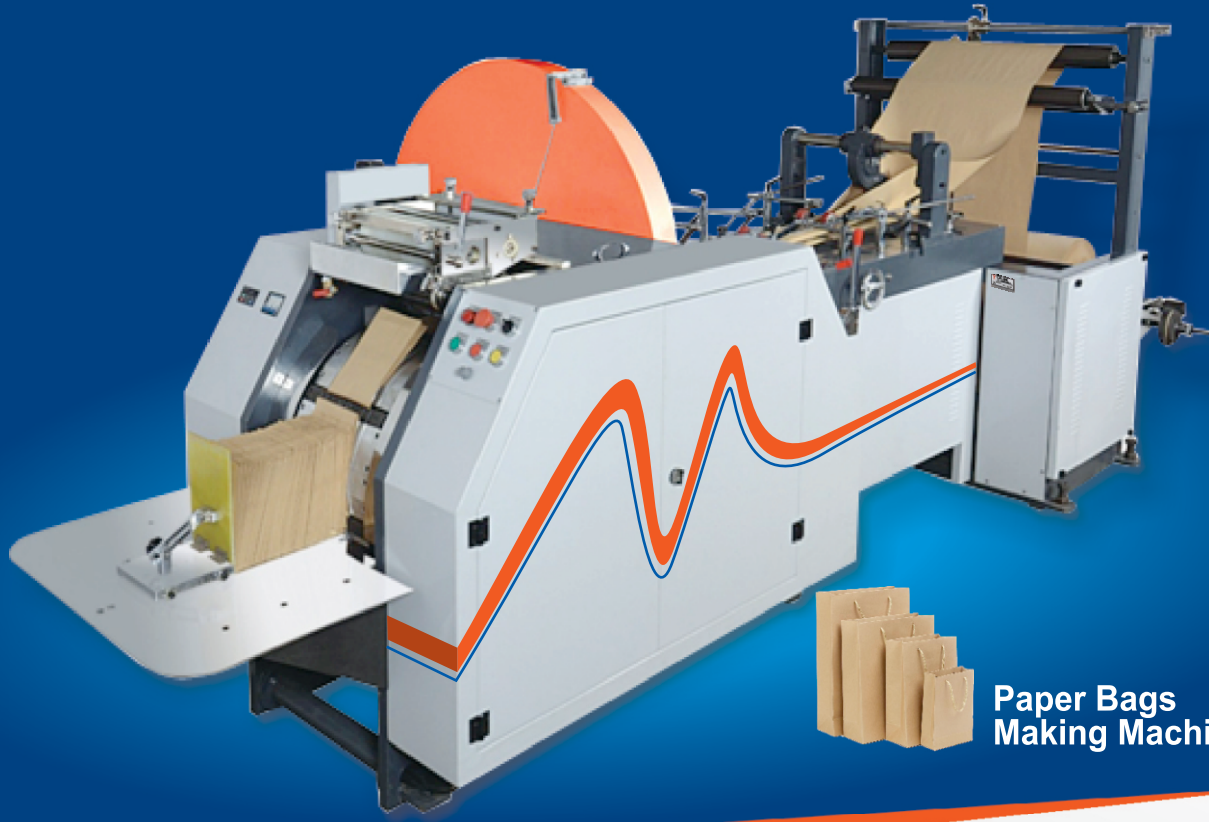
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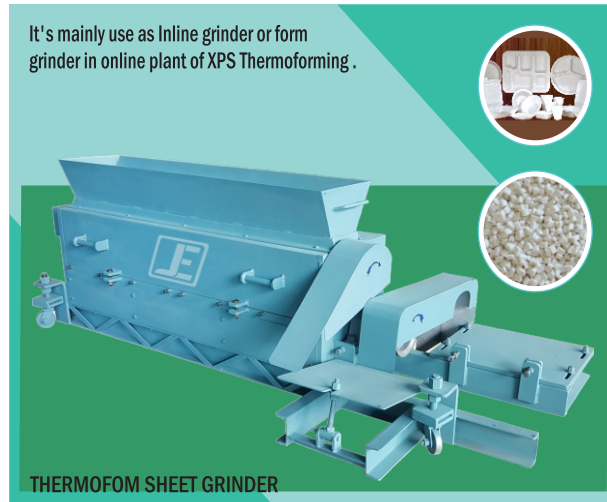
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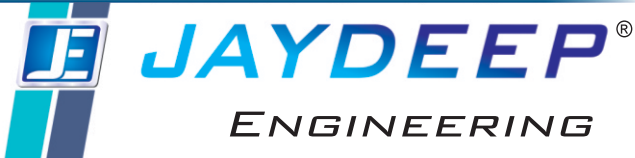
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Plastec West	Anaheim, CA	10-12th Aug.-2021
T-Plas 2021	Bangkok,Thailand	22-25th Sept.-2021
27th Fakuma	Germany	12-16th Oct.-2021
VietnamPlas	Vietnam	13-16th Oct.-2021
ArabPlasDubai	UAE	15-18TH Nov.-2021
Plast Eurasia Istanbul 2021	Istanbul, Turkey	1st-4th Dec.-2021
Interplastica	Moscow, Russia	25th-28th Jan.-2022
PLAST INDIA-2022	Pragati Maidan-new Delhi	17-21 FEB-2022
PLAST FOCUS	Greater Noida-2022	5-9 MARCH 2022
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## THE PLASTIC PARADOX AND THE WORLD ENVIRONMENT DAY

The theme for World Environment Day 2021 is “Ecosystem Restoration” and will see the launch of the UN Decade on Ecosystem Restoration. Ecosystem restoration can take many forms: Growing trees, greening cities, rewilding gardens, changing diets or cleaning up rivers and coasts, MINIMIZING WASTE. This is the generation that can make peace with nature. Every year, June 5 is celebrated as WORLD ENVIRONMENT DAY by UNITED NATIONS ENVIRONMENT PROGRAM



### What is Ecosystem Restoration?

Ecosystem restoration means assisting in the recovery of ecosystems that have been degraded or destroyed, as well as conserving the ecosystems that are still intact. Healthier ecosystems, with richer biodiversity, yield greater benefits such as more fertile soils, bigger yields of timber and fish, and larger stores of greenhouse gases.

Restoration can happen in many ways – for example through actively planting or by removing pressures so that nature can recover on its own. It is not always possible – or desirable – to return an ecosystem to its original state. We still need farmland and infrastructure on land that was once forest, for instance, and ecosystems, like societies, need to adapt to a changing climate.

Between now and 2030, the restoration of 350 million hectares of degraded terrestrial and aquatic ecosystems could generate US\$9 trillion in ecosystem services. Restoration could also remove 13 to 26 gigatons of greenhouse gases from the atmosphere. The economic benefits of such interventions exceed nine times the cost of investment, whereas inaction is at least three times more costly than ecosystem restoration.

All kinds of ecosystems can be restored, including

forests, farmlands, cities, wetlands and oceans. Restoration initiatives can be launched by almost anyone, from governments and development agencies to businesses, communities and individuals. That is because the causes of degradation are many and varied, and can have an impact at different scales.

The 2030 Agenda for Sustainable Development seeks to end poverty, conserve biodiversity, combat climate change and improve livelihoods for everyone, everywhere. These objectives, encapsulated in 17 Sustainable Development Goals (SDGs) are unlikely to be met unless ecosystem degradation is stopped and ecosystem restoration is undertaken at the immense scale of hundreds of millions of hectares globally.

Currently, there is insufficient political support and technical capacity in both the public and private sectors to invest in the many hundreds of thousands of ecosystem restoration initiatives worldwide that are needed to achieve restoration at such a scale. Not only would such investment contribute to achieving the SDGs, but it would also yield considerable economic returns for a recovery from the COVID-19 crisis and lead to more social, economic and ecological resilience. Based on data from a wide range of ecosystems, for every dollar spent on restoration, between three and seventy-five dollars of economic benefits from ecosystem goods and services can be expected.

UN Member States decided to implement a Decade on Ecosystem Restoration to realize these benefits and to ensure that healthy ecosystems play a critical role towards achieving the SDGs by 2030. This UN Decade will inspire and support governments, UN agencies, NGOs, civil society, children and youth, private sector companies, indigenous peoples, farmers, women’s groups, local communities and individuals globally to collaborate and develop the appropriate skillsets for catalyzing and successfully implementing restoration initiatives across the world. The support will include: promoting a global movement focusing on restoration; developing legislative and policy frameworks to incentivize restoration; developing innovative financing mechanisms to fund operations on the ground; detailing a values-based imperative to conserve, restore and care for nature; undertaking social and natural science research on restoration in terrestrial, freshwater, estuarine as well as marine environments; monitoring global progress on restoration; and building the technical capacity of restoration practitioners globally.

Although the UN Decade ends in 2030, it aims to create a platform for societies globally to put their relationships with nature on a new trajectory for centuries to come. It is envisaged that this trajectory will include: nature being respected across society; ecosystem restoration taking place over hundreds of millions of hectares and generating

millions of new livelihoods; human rights, with a focus on gender equity, youth, local communities, indigenous peoples and future generations, being central to restoration initiatives; global supply chains and consumption patterns being shifted to protect, sustainably manage and restore nature; long-term scientific research being used to guide restoration initiatives; and the value of nature being a central pillar of national systems that assess economic well-being. Reducing inputs of plastic to the environment must be prioritized through a global multidisciplinary approach.

Mismanaged waste is a major land-based source of plastic pollution that can be reduced through improvements in the life-cycle of plastics, especially in production, consumption, and disposal, through an Integrated Waste Management System. SOME recommendations for stakeholders to reduce plastic pollution include

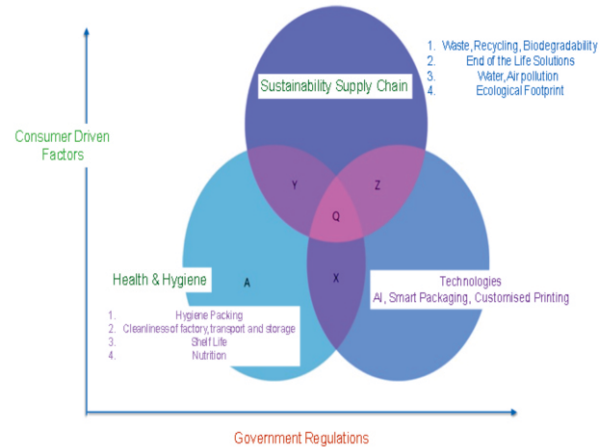
- (1) regulation of production and consumption;
  - (2) eco-design;
  - (3) increasing the demand for recycled plastics;
  - (4) reducing the use of plastics;
  - (5) use of renewable energy for recycling;
  - (6) extended producer responsibility over waste;
  - (7) improvements in waste collection systems;
  - (8) prioritization of recycling;
  - (9) use of bio-based and biodegradable plastics; and
  - (10) improvement in recyclability
- use of technology, IOT to manage and process

The success of recycling—indeed, its true value in the long term—won't depend on how much landfill space is saved but on whether or not recycling makes economic sense. To build demand for recycled materials, government and business must not only reinvent themselves, they must also reinvent their relationship,

especially when it comes to economic problems that neither can solve alone.

The most common reason given for the current economic crisis in recycling is the supply and demand problem.

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**Shailesh Shinde**  
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Plastics are synthetic carbon-based polymers and are commonly derived from fossil fuels such as oil and gas. Plastics are preferred in many industries as they are an excellent barrier of oxygen, carbon dioxide and water. Their high durability and versatility, production ease, convenience and suitability for many applications has made them the best choice for the packaging industry. The growing production of plastics is a key environmental concern, considering the long time plastic products take to break down in the environment. 280 m metric tons of plastic waste is generated globally every year, India generates 3.3 million metric tons per year. Out of all the humongous plastic waste generated globally, only 9% is recovered for recycling. The growing concerns related to impact of plastic waste on the health of the environment and those dealing with waste has led to use of alternative materials. The sustainability of any material is dependent on the renewability of natural resources used for making the material.



**APPLICATION OF PLASTIC**

Plastic is used across almost every sector in India, including the packaging industry which constitutes 4% of global packaging industry, although the per capita packaging consumption of India is 4.3 Kgs and is low in comparison to the developed nations, it still causes plastic waste and

management of this waste is definitely challenging. Other applications include consumer products, construction, electrical and electronic appliances, automotive, furniture, healthcare industry etc.

**E-commerce**

Shopping online has drastically increased during the pandemic, and is preferred by many. The E-commerce sector uses plastic for packaging as it is the most economical and feasible packaging option. Every product we order comes with a plastic packaging of the company and an add on plastic packaging of the e-commerce app from where it's ordered.

**FMCG**

The products used on a daily basis from toiletries to kitchen products, all come in plastic packaging. Online food delivery industry Online food delivery has made ordering food just a click away. With a huge increase in the number of online orders during pandemic, it is one of the fastest growing industries. The food is delivered in plastic containers as plastic is considered inert and chemically resistant to the outside environment. Some of these containers are designed to withstand the heating temperature in the microwave whereas some are designed to go into deep freezers.

**Pharmaceutical Industry**

Pharmaceutical industries use plastic packaging as it prevents materialistic damage and prevents it from outside environment and avoids leakage and contamination of medicines. And with the surge in the pandemic, we saw an increase in use of PPE kits which are single-use plastics. Apart from the applications mentioned above, plastic is also used in construction materials, for its durability and long lasting characteristics.

When it comes to the automotive sector, plastic has been used in automotive design widely for safety, fuel efficiency and performance.

Although plastic is widely used in almost every sector, it does generate a huge amount of waste. India alone generates around 25,940 tonnes of plastic everyday. The amount of plastic waste is huge, and managing it is a challenge and in India is dependent on the informal sector. On a brighter side, Plastic Waste Management Rules, 2016 introduced Extended Producer Responsibility which is based on the 'Polluters Pay principle' makes companies introducing plastic products in the market responsible for the post-consumer waste it generates. Producers, Importers, Brand Owners have to dispose of this plastic waste scientifically. Plastic waste can either be collected and given to recyclers for recycling or sent to cement kilns where it could be used as an alternative fuel and raw material (AFRs).

- Recycling of plastic waste: Plastic recycling is a process of recovering plastic scrap and reprocessing the material into new products. Not only does it divert plastic waste going into landfills, but it also prevents plastic pollution. It also reduces the use of virgin plastic, as a small amount of it is required when making a new product out of recycled plastic granules. Plastic recycling is challenging due to complexity of sorting, and low value. In India there are approximately 3500 organized and 4000 unorganized plastic recycling units. Recycling industry is dependent on the informal sector which comprises rag pickers who collect and sort the plastic waste and sell it to recyclers to further send it for recycling. Plastic recycling industry in India is currently 3 MTPA and provides employment to 0.6 million people directly and 1 million people indirectly. Plastics like PE, PP, PVC, PET could be recycled by mechanical route whereas engineering plastic is recycled by selected recyclers. Segregation of waste at source and cleaning the plastic waste before disposing of is important. If the plastic waste is segregated properly, it would help in easing the sorting process before sending it for recycling. Apart from companies, we as consumers should take responsibility of at least segregating waste religiously before disposing of.

- Energy recovery: Energy recovery of non-recyclable plastic is conversion of the plastic waste into usable heat, electricity, fuel through a variety of processes. Use of Multi layered Plastic (MLP) in Cement factories as an Alternate Fuel and Raw Materials (AFRs) is considered as a sound solution in reducing the plastic waste. According to the cement manufacturers association (CMA), cement plants currently

have a thermal substitution rate (TSR) of 4% of their fuel requirements from alternate fuels including plastic waste. There would be an increase in TSR from 4% to 25% by 2025, proposed by the cement industry. This can ensure processing of gigantic volumes of MLP on a regular basis.

**Comparing plastic with other materials**

**Glass**

Glass and plastic containers like jars, mugs, bottles are few common products we see on kitchen shelves, and are the ones typically used for



reference and marketing when it comes to sustainability and eco-friendly lifestyle. The use of plastic or glass is completely dependent on convenience. Glass is eco-friendly and can be recycled a number of times without losing its quality. But is it possible for everyone to start using glass instead of plastic?



of glass is perceived as a good one, as it is an expensive material it surely gives a premium experience, products in glass looks more fresh and pleasant, it's feel and weight and all these help in a good marketing strategy of the products. Glass is a heavy material made out of sand, and is easily breakable. So, using all glass products in a house where there are toddlers or children around is not preferred. Whereas plastic is light in weight and durable, molded into any shapes which are comfortable for holding the product.

- The quality of glass is perceived as a good one, as it is an expensive material it surely gives a premium experience, products in glass looks more fresh and pleasant, it's feel and weight and all these help in a good marketing strategy of the products. Glass is a heavy material made out of sand, and is easily breakable. So, using all glass products in a house where there are toddlers or children around is not preferred. Whereas plastic is light in weight and durable, molded into any shapes which are comfortable for holding the product.
- Glass has inertness and impermeability which is ideal for pharmaceutical products and personal care products. Hence we get many liquid medicines in glass bottles, and many cosmetic products are packed in glass containers and bottles. Plastic on other hand is versatile and with seven types of plastic, we can find a wide range of plastic applications for almost everything.
- As mentioned above, glass is an expensive material, and being fragile needs careful handling and shipping which costs more, making it more expensive. On the other hand plastic is lightweight and it's economical when it comes to shipping and transportation for long distances.
- Glass manufacturing is an energy intensive process and requires a lot of heat. Melting point of plastic is lower than that of glass and requires less energy for production.
- Although production of glass requires less energy as compared to glass production, glass is still an eco-friendly choice. Glass is 100 percent recyclable and can be recycled and made into the same products

again. Whereas when plastic is recycled, it reduces its quality each time and is never made into the same product, this is downcycling.

- Plastic is porous as compared to glass and has a tendency to leech into products. Glass can withstand a high temperature which makes it the best option while heating food products. Plastic beats glass in terms of production ease and durability and it's versatile characteristics plus lower shipping costs. Whereas glass beats plastic when it comes to recycling and non-toxicity and ability to withstand and hold high temperature. Apart from this, biofilms are formed in glass containers if food is stored for a long time in glass containers, biofilms are microbial communities formed collectively and are a threat to health. Timely cleaning of glass containers is necessary to avoid this and will be considered an add on work and is not usually seen in plastic containers. Using glass or plastic is a discussion, and thinking about which is more eco-friendly is also debatable and its use is completely dependent on the convenience of the person using them.

**Metal**

Is metal more sustainable than plastic depends on the type of metal that is being compared with the plastic. Just as there are different types of plastics, there are different types of metals. Depending on the extraction, production, fabrication, source of material used for extraction etc. Metal originates from ore, which is a naturally occurring solid material, and we can say that metal is permanently accessible material. The very common metals used are aluminum and steel and have a wide range of applications. Both steel and aluminium can be recycled and reused into new products.

- Stainless steel is durable and corrosion resistant and is long lasting as compared to plastic or glass. It is completely recyclable and when exposed to heat there's no leaching of chemicals. Although the manufacturing of stainless steel is energy intensive and introduces more carbon dioxide into the atmosphere.
- Aluminum is lighter than stainless steel but manufacturing aluminium is a challenging task which involves extracting it from bauxite which damages the ecosystem. Epoxy or enamel are used in aluminum to prevent it reacting with acidic liquid, which means aluminum contains BPA which have high chances of leaching. But on a positive note, there is availability of BPA free, leaching tested aluminum products available in the market. And these could be reused a number of times.
- Both stainless steel and aluminum when compared with plastic have a debatable outcome. When it comes to production metals have a higher production footprint. Stainless steel might beat plastic when it comes to recyclability. Although transportation of aluminum is easier as compared to stainless steel due to light weight, plastic beats both as it is lighter than both and has ease of transportation.

The more sustainable choice between these materials depends on the one using it. If you are using plastic on a large scale then make sure you dispose of it carefully following all the norms which makes it a part of the recycling process. A small change in your lifestyle which responsible choices will end up in using plastic in a responsible way.



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## SIRAP SELECTS INEOS STYROLUTION'S NEW MECHANICALLY RECYCLED POLYSTYRENE FOR SUSTAINABLE PACKAGING SOLUTION

### INEOS STYROLUTION

INEOS Styrolution, the global leader in styrenics, and Sirap Group, a leader in sustainable food packaging solutions, announced today to incorporate the new mechanically recycled Styrolution® PS ECO, a 100% recycled polystyrene, for new food packaging solutions.

Sirap Group is a company with a track record for providing high quality and sustainable packaging solutions. Sirap will benefit from the excellent property profile of the mechanically recycled Styrolution PS ECO. Easy foaming properties allow the production of XPS foam packaging trays

Franck Dumasdelage, General Manager France at Sirap Group, comments: "Sirap has been investing into R&D for

innovative and sustainable materials for more than 60 years. We have been working with INEOS Styrolution's virgin material before. Naturally, we were excited to learn that the material is available now also as mechanically recycled Styrolution PS ECO. It looks like the perfect material for our purpose."

Louie Mackee, Standard Business Project Specialist at INEOS Styrolution, adds: "At INEOS Styrolution, we are excited to work with a fast mover like Sirap Group who shares our passion for sustainability."

INEOS Styrolution have recently launched several mechanically recycled polystyrene products. See also our recent collaboration announcement with Tomra

For more detail.  
[www.ineos-styrolution.com](http://www.ineos-styrolution.com)



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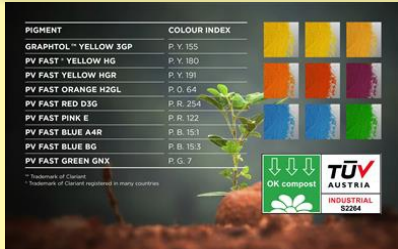
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# CLARIANT EXPANDS ITS CONTRIBUTION TO SUSTAINABILITY WITH PIGMENTS CERTIFIED OK COMPOST INDUSTRIAL

- Clariant pigments certified OK compost INDUSTRIAL can be used to color plastic products, including packaging, intended to be compostable
- Certification awarded by the TÜV AUSTRIA
- Label opens new color opportunities to masterbatch and packaging producers and helps the fast-moving consumer goods (FMCG) industry fulfill its sustainability commitments



To meet sustainability targets and fulfill commitments to the plastics circular economy, producers of plastic articles are increasingly using polymers that are compostable. Clariant's business unit Pigments is contributing to this growth in compostable plastic articles, with a range of certified OK compost INDUSTRIAL pigments, offering customers new coloring opportunities.

Nine selected products in Clariant's PV Fast® and Graphtol™ ranges now feature the label OK compost INDUSTRIAL, that fully meet the requirements of the European Union EN 13432: 2000 standard when not used above the maximum

concentration in the final application, representing a significant contribution to sustainability.

"We are proud of this development that is part of our strategy to offer solutions for more sustainable packaging and to strengthen our product portfolio," said



Andreas Buder, Technical Marketing Manager Plastics at Clariant. "This certification allows our customers to use bright colors in their biodegradable products, since they are suitable for industrial composting."

The PV Fast and Graphtol range of pigment powders are high

performance organic pigments. Both product ranges are used in various applications in the consumer goods sector, such as sensitive food contact packaging, plastics tableware/dishware or toys.

The coloration of biodegradable polymers requires the pigments to meet certain characteristics in order to be considered compostable. For processing through organic recovery facilities, this requires a low heavy metal and fluorine content, and no ecotoxicity towards plants.

For more information on the nine colorants that have been certified,

**For more detail.**  
[www.clariant.com/colorants-for-biodegradable-plastics](http://www.clariant.com/colorants-for-biodegradable-plastics).

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ગામદોડ, ત્યાંનાદોડો. જુદીદિશાપકડો.

આખું ગામ અત્યારેક્ષતપીવીસીસીબોર્ડબનાવવા માટે,છાશવારે ચાઇનાદોડી જાય છે.પ્લાયવૂડની કેટલી માંગ છે એ કોઇને ખબર છે? એની સામે આપીવીસીબોર્ડવેચવાના છે.

નોન-વોલનબનાવવા માટે મશીનલઇઆવનારાનીશીદશા થઇ એ ગામ આખુંભૂલીગયું છે.

મોટાંકીભાંડો લોકોભૂલી જાય છે,એટલે આ વાત બહુસામાન્ય છે.

પણ ફરેકયુગમાંદરેકવાતનુંપુનરાવર્તન થયાંકરે છે.એટલે હવે, નોન-વોલન પછી પીવીસીસીબોર્ડનો વારો છે.

લોભીયા હોય ત્યાં ધૂતારા ભૂખેનામરે. એટલે છાશવારે, બેગ ભરીનેચાઇના ઉપડીજતી પ્રજાને લાલબત્તીબતાવવાનો આ પ્રયત્નસમજવો.ચાઇના, આપણાજેવાસસ્તંખરીદનારાલોભીયાંની રાફ જોઇને, જાળ પાથરીને રાફ જુએ છે. આપણીલગભગ અભણ અનેકહેવાતી ભોળી પ્રજા ને એરપોર્ટથી લાવે, લઇ જાય, મસાજકરાવી દે, ફોટલેથી લાવવા-લઇ જવાનીસગવડઆપે એટલે આપણી પ્રજા ભરાય.

ત્યાં જઇને, આપણને, પરીપજીવીવેલોનીજેમ,મક્તમાં ખાવા-પીવાથી લઇને, ફરવા-ફરવાં સુધીનું મળી જાય એટલે

આપણા બાપ જન્મારેયકોઇ જાણકારીનહિકોવાં છતાંયે, જે મળે એ ઉચકીલાવવુંએવીઆપણીબાલીશફરકતોનો,

ચીનાઓ લાભ ઉઠાવે છે, અને એ આપણને ભાન પડેત્યાં સુધી ઘણું મોડું થઇ ચૂક્યું હોય છે.

સુધરી જાવ, આપનાપિતાજી એ બહુમેહનતકરીનેરુપિયાભેગાંકર્યાફશે. આલેખ, ગુજરાતીમાંહોવાનુંકારણ ચોક્કસ છે.

જ્યહિંદ.

The Author, Mr.Kamal Shah, is Ahmedabad based consultant, assisting to set up Lucrative and new projects.

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## PLASTICS है FANTASTIC

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कभी काच सा यह पारदर्शी  
कभी रंग-बिरंगी बहार है  
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इसमें लचीलापन, कम भार है ॥2॥

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प्लास्टिक्स कुदरत का एक चमत्कार है  
हमें इससे बेहद-बेहद प्यार हैं  
इसकी महत्ता को पहचान लो अब  
गर करना देश का उद्धार है ॥8॥

घर, ओफिस, वाहन उद्योग  
प्लास्टिक्स हर जगह बेशुमार है  
पल-पल, पग-पग काम आये  
इसके महत्त्व से किसे ईनकार है ॥5॥

जीवन सरल बनाने में  
प्लास्टिक्स का अहम किरदार है  
स्वर्णिम जवानी इसमें बिता दी  
ये हमारा श्रम-साधित संसार है ॥6॥

ढालने में कम ऊर्जा लगे  
प्राकृतिक संपदा का भी बचाव हैं  
जगह-जगह लकड़ी की जगह ली,  
वन-वृक्षों का तारण हार है ॥7॥

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VAPI, GUJ., INDIA

PLASTIVISION INDIA 2013  
DEC 12<sup>th</sup>-16<sup>th</sup> 2013  
MUMBAI, INDIA

2015

PLAST INDIA 2015  
FEB 5<sup>th</sup>-10<sup>th</sup> 2015  
GANDHINAGAR, INDIA

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SEPT. 25<sup>th</sup>-27<sup>th</sup> 2015  
BENGALURU, INDIA

PLAST SHOW 2015  
DEC 4<sup>th</sup>-7<sup>th</sup> 2015  
VAPI, GUJ., INDIA

2017

PLASTIVISION INDIA 2017  
JAN 19<sup>th</sup>-23<sup>th</sup> 2017  
MUMBAI, INDIA

IPEX 2017  
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CHENNAI, INDIA

PLASTASIA 2017  
JULY 8<sup>th</sup>-11<sup>th</sup> 2017  
NEW DELHI, INDIA

2018

PLASTI INDIA 2018  
FEB 7<sup>th</sup>-12<sup>th</sup> 2018  
GANDHINAGAR, INDIA

INDPLAS 2018  
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2019

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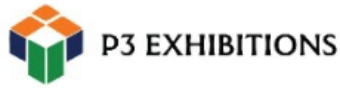
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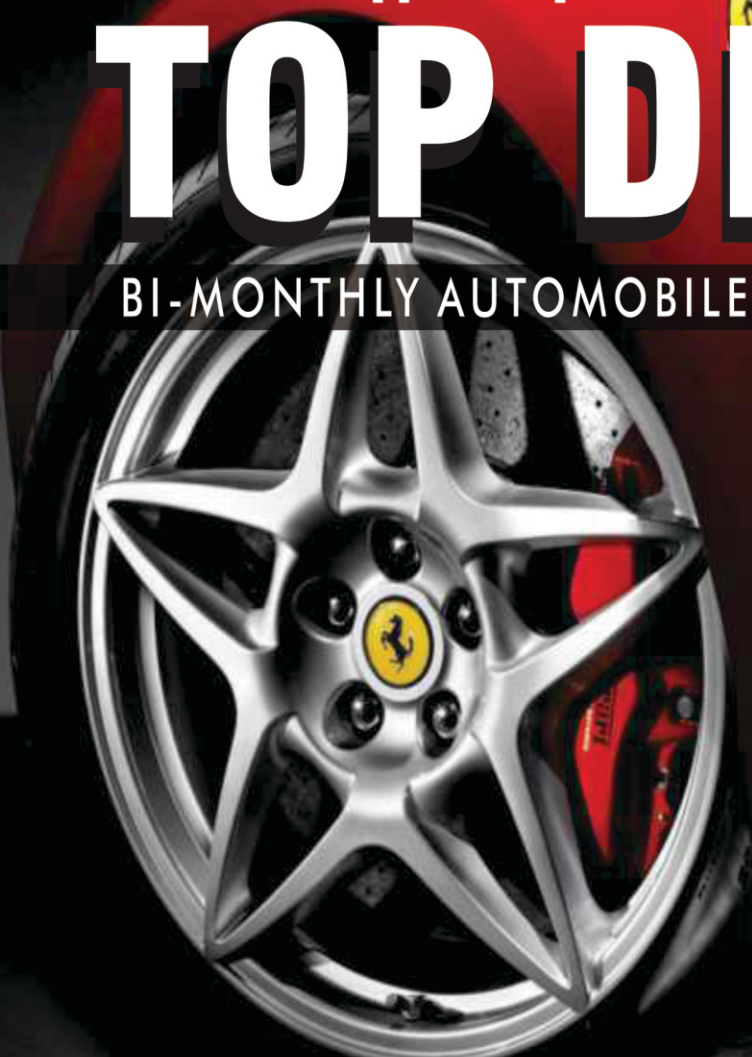
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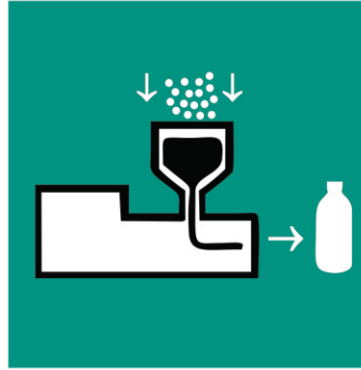
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