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

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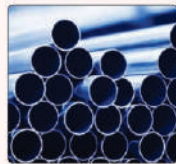
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Online Rotogravure Printing Machine



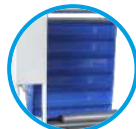
Application:

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

Features:



Oscillating Doctor Blade Movement Facility



Drying Blower Facility



360° Universal Movement Oscillating Doctor Blade



Main Shaft Power Transmission Facility



Air Pneumatic Pressure Rubber Roller



Frequency Drive And Control Panel With CE Std Components Fitted



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
- ▶ Printing Facility Available On Any Left Or Right Corner Of The Film



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Prevention

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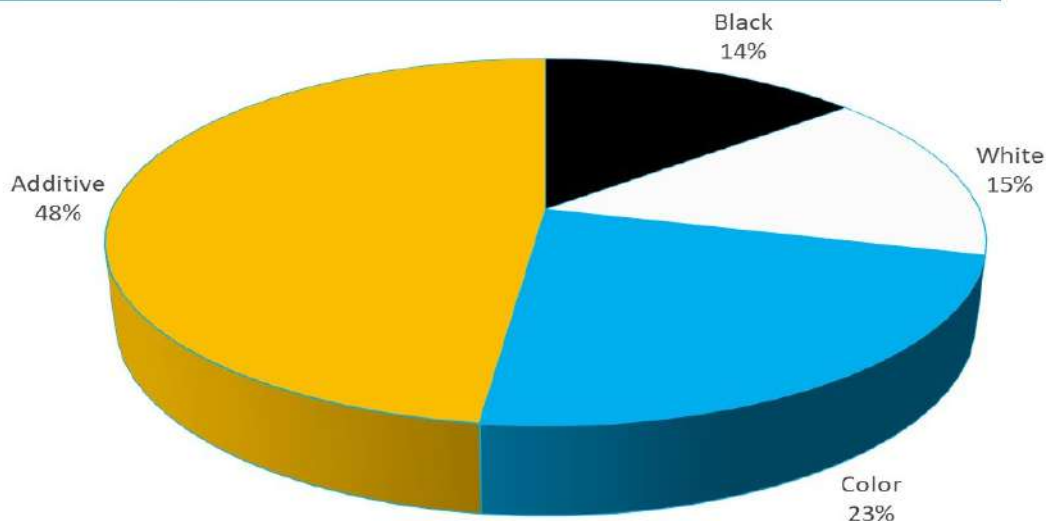


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More change and opportunity in the North American concentrate market

Figure 1: Thermoplastic Concentrate Producers in USA and Mexico 2020

AMI



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An AMI Consulting report: Thermoplastic Concentrates in USA and Mexico 2021

AMI, 14th April 2021 – According to the latest research from AMI Consulting, the NAFTA market for thermoplastic concentrates continues to be one of the most dynamic opportunities within the plastics industry. Product demand is increasing in all product areas against a background of material advance. However, the real opportunity arises from technical changes in the market which necessitate more technically advanced products and services. Among the many drivers of demand, the most important are the move of polymer solutions into more scientifically sophisticated applications

where the combination of pigments and additives requires greater expertise and formulation skill. A secondary factor which the report identifies is the growing need to “refresh” the characteristics and colours of recycled resin. Increasing demand for more sustainability within the industry has called for new solutions and services, which the concentrate industry is ideally placed to deliver.

Customer service needs, among leading plastic processors and major brands, are also demanding greater investments and technical resources, which benefit the sophisticated and focussed supplier.

North America is at the forefront of innovation among global brands, developments in the region tend to migrate out to the whole world, this further enhances the local industries’ value contribution.

The strong nature of the local industry has also led to structural change in recent years. There have been a number of mergers and acquisitions in the business with the recent formation of Avient Corporation between the already leading players of PolyOne and Clariant; a leading indicator. Other players, notably Chroma Color Corporation, Colortech and National Plastics have also enhanced their market

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status. The other notable trend has been increased investments on a global scale, this includes a number of non-American companies investing in the region and American companies making new moves in other regions.

The business has strong growth prospects and an ongoing period of corporate change an adjustment. These trends provide a strong foundation for profit and prosperity, as the industry continues its characteristic of advancing at rates ahead of the overall growth in prime polymer demand. The delta between

polymer growth and concentrate market advance will narrow, however the prospects are still very good in value added areas such as custom color and additive materials.

The largest market for concentrate in North America is still for additive types (especially mineral based products), while the color segment is the most important in value terms in a market now exceeding \$3.5 billion in sales.

AMI concludes that the market in North America will continue to grow, albeit at levels much lower than has

historically been the case, because of much slower growth in the traditional volume markets for concentrate in polyethylene film and blow moulding. Opportunities will arise in more speciality sectors such as grass yarn, WPC's and high performance packaging and in the growing use of recycled materials that will require additive packages to modify performance.

For more detail.
www.ami.international

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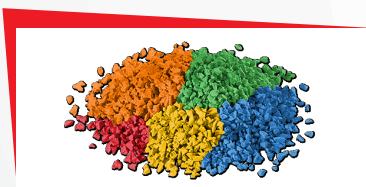
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**Cosmo Films Ltd. Launches CSPR-2 (M) O BTC -
A non-tearable and co-extruded
100% Opaque Synthetic Paper**



New Delhi, May 11th, 2021: Cosmo Films Ltd., a global leader in speciality films for flexible packaging, labeling and lamination applications as well as synthetic paper, introduces 100% Opaque Synthetic Paper (OSP) which is specially designed for a dangler application.



A non tearable, co-extruded , white opaque, and both sides matte coated film which resembles paper in appearance is best suited for outdoor applications where printing is done on both sides and requires 100% opacity. With remarkable moisture resistance, this white opaque paper yields superior ink adhesion and exceptional colour reproducibility.

Matteness on both sides of the product makes it appear similar to paper and offers an excellent print quality and true color output. It's print receptive coating allows it to print on both sides by Conventional & UV offset, UV & water-based flexographic, thermal transfer, and screen & letterpress printing processes.

On the product launch, Mr. Pankaj Poddar, CEO, Cosmo Films Ltd. said," With boundless uses in Commercial Printing, Retail

& Packaging, Tags & Labels, Identification and Credentials and Outdoor Displays and Signages, CSP can create a niche for itself as a weather-proof replacement for paper in applications where durability and longevity is desired. Cosmo Films Ltd. is the leading market player in India, and with this launch we aim to grow in the Indian as well as International markets."

ABOUT COSMO SYNTHETIC PAPER:

Cosmo Synthetic Paper is an innovative BOPP-based synthetic paper resembling traditional pulp-based paper in all aspects. It is printable with all available technologies including but not limited to wet and UV offset, wet and UV flexo, letterpress, screen, thermal transfer and most digital toner technologies. With a matte paper like finish, it is non-tearable, has moisture and chemical resistance with excellent lay flatness. The product is available in 75, 95, 120, 150, 175, 195, 215, 275, 330, 375 and 430 microns. It has a truly versatile range of applications such as Commercial printing: Maps, calendars, posters, recipe books, instruction manuals etc., Tags and Labels: Chemical drum labels, airport transfer tags, track and trace labels etc., Retail and Packaging Segment: POP





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graphics, carry bags etc. Identification and credentials: visiting cards, ration cards, land documents, birth and merit certificates etc. and Outdoors: Tree tags, train station and airport signages, displays etc.



innovative products and sustainability solutions, Cosmo Films over the years has been partnering with the world's leading F&B and personal care brands and packaging & printing converters to enhance the end consumer's experience. The Company's film offerings include BOPP and CPP films. Today, it is the largest exporter of BOPP films from India and also the largest producer of thermal lamination films in the world with a customer base spread over more than 100 countries and with manufacturing units in India, Korea & Japan.

For more information, please contact:

- The Communication Council
vishal.bhalla@tccgd.com |
- Cosmo Films Ltd.
Shagun.walia@cosmofilms.com

ABOUT COSMO FILMS LIMITED:

Established in 1981 and founded by Mr. Ashok Jaipuria, Cosmo Films is a global leader in the manufacturing of specialty films for packaging, lamination, labelling and synthetic paper. With the engineering of



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ગામદોડ, ત્યાંનાદોડી. જુદીદિશાપકડી.

આખું ગામ અત્યારેફક્તપીવીસીફોર્ડબનાવવા માટે,છાશવારે ચાઈનાદોડી જાય છે.પ્લાયવૂડની કેટલી માંગ છે એ કોઈને ખબર છે? એની સામે આપીવીસીફોર્ડવેચવાના છે.

નોન-વોવનબનાવવા માટે મશીનલઈઆવનારાનીશીદશા થઈ એ ગામ આખુંભૂલીગયું છે.

મોટાંકીભાંડો લોકોભૂલી જાય છે,એટલે આ વાત બહુસામાન્ય છે.

પણ ફરેકયુગમાંફરેકવાતનુંપુનરાવર્તન થયાંકરે છે.એટલે ફવે, નોન-વોવન પછી પીવીસીફોર્ડનો વારો છે.

લોભીયા ફોય ત્યાં ધૂતારા ભૂખેનામરે. એટલે છાશવારે, બેગ ભરીનેચાઈના ઉપડીજતી પ્રજાને લાલબત્તીબતાવવાનો આ પ્રયત્નસમજવો.ચાઈના, આપણાજિવાસસ્તંબરીદનારાલોભીયાંની રાફ જોઈને, જાળ પાથરીને રાફ જુએ છે. આપણીલગભગ અભણ અનેકફેવાતી ભોળી પ્રજા ને એરપોર્ટથી લાવે, લઈ જાય, મસાજકરાવી દે, ફોટલેથી લાવવા-લઈ જવાનીસગવડઆપે એટલે આપણી પ્રજા ભરાય.

ત્યાં જઈને, આપણને, પરીપજીવીવેલોનીજેમ,મક્તમાં ખાવા-પીવાથી લઈને, ફરવા-ફરવાં સુધીનું મળી જાય એટલે આપણા બાપ જન્મારેયકોઈ જાણકારીનફિફોવાં છતાંયે, જે મળે એ ઉચકીલાવવુંએવીઆપણીબાલીશફરકતોનો, ચીનાઓ લાભ ઉઠાવે છે, અને એ આપણને ભાન પડેત્યાં સુધી ઘણું મોડું થઈ ચૂક્યું ફોય છે. સુધરી જાવ, આપનાપિતાજી એ બહુમેફનતકરીનેરુપિયાભેગાંકર્યાફશે. આલેખ, ગુજરાતીમાંફોવાનુંકારણ ચોક્કસ છે. જ્યહિંદ.

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

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EXHIBITION	COUNTRY	DATE
Chinaplas 2021	Shenzhen, PR China	13-16th April-2021
12th Die & Mould India International Exhibition	Mumbai, India	28th -1st May-2021
NPE 2021	Florida, USA	17-21 May-2021
Indoplas	Jakarta, Indonesia	2-5TH June-2021
Plastasia 2021	BIEC Bangalore	2-5 July-2021
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
PLASTIVISION	Mumbai-india	9-13 FEB-2023



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India generates 3.3 million metric tons of plastic waste per annum according to the Central Pollution Control Board (CPCB) report. Although there has been decades of work surrounding plastic pollution, it still is a major problem and continues to present challenges. Multi layered plastic waste is a huge contribution for this problem and this article will give a glimpse about MLP, its impact on the environment and what potential solutions we have to solve this problem.

Multi Layered Plastic

MLP stands for Multilayered plastic and according to the PWM 2016 Rules, is defined as any material used or to be used for packaging and having at least one layer of plastic as the main ingredients in combination with one or more layers of materials such as paper, paper board, polymeric materials, metalized layers, or aluminum foil, either in the form of a laminate or co-extruded structure. Basically MLP is any material that has at least one layer of plastic.

Impact of MLP waste on Environment:

40 percent of global plastic waste is generated for packaging, which includes MLP used in food packaging. This is usually used once and discarded hence are considered as single use plastic. MLP is a preferred material in the food industry, as it protects the food products and hence giving it a longer shelf life. India has a diverse climate and the nature of MLP allows protection of food in climates like hot and humid. Hence, it is preferred on a large scale across India. Apart from this, it's lightweight, available in different sizes from small packets to big packets, makes it available in

small tea stalls to supermarkets. It is present everywhere and is easy to throw but difficult to collect. And eventually it ends up as litter, or in landfills or in waterways, and enters our food chain. The practical challenges in collection and segregation of MLPs involve labour intensive work, space constraints for storage due to its voluminous nature etc. This makes recycling of MLP



economically unviable and is mostly destined to end up in landfill. However few technological interventions have made it possible to manage this waste.

Potential Solutions for managing the MLP waste

1. Energy recovery : Use of MLP in Cement factories as an alternate fuel or in Waste-to-energy (WTE) plants are considered as a solution in reducing the plastic waste. These technologies offer the solution to process the gigantic volumes of MLP on a regular basis.

2. Granules into products : The recycled plastic granules from the MLP waste, can be used in the injection moulding applications such as flower-pots, wastebaskets, road dividers, low-cost furniture, park benches etc. The granules made from MLP are a benefit for manufacturers and producers as the MLP pellets, apart from being sustainable, are also cheaper than the virgin pellets. They not only contribute to a circular economy but also reduce the huge amount of MLP waste ending up in landfills and harming the environment.

3. Pyrolysis : Pyrolysis by definition means the thermal decomposition of materials at elevated temperatures in an inert atmosphere. It is a common technique used to convert plastic waste into energy. The liquid oil produced through this process can be used as an alternate fuel and helps in reducing the carbon footprint.

Benefits of MLP Recycling :

- Considering the increasing amount of MLP waste, recycling is the best and sustainable solution for reducing the impact caused by MLP waste.

- MLP recycling manages the highly polluting and littered plastic waste and contributes to the circular economy.
- It ensures resource recovery plus is economically beneficial.
- Also generates employment, and is paving the way for formalizing the recycling sector which includes stakeholders like ragpickers, recyclers, etc.

About the Agency :

Social Lab Environmental Solutions is a waste management company committed to create people-centric waste management solutions. They have a team of 58+ people comprising Engineers, Management Professionals, Social Workers, City Planners, and Sustainability Professionals. The team has on-ground experience of designing and implementing Solid Waste Management (SWM) system for the cities. Social Lab is headed by alumni of College of Engineering, Pune and Tata Institute of Social Sciences, Mumbai.

They work closely with companies especially Plastic producers and FMCGs to fulfil their EPR mandate under PWM Rules 2018. They do this so by managing the complete supply chain from collection to disposal in a transparent manner. Their clients include Marico Ltd, Dabur India Ltd, Garware Polyester Ltd, Cosmo Films Ltd, ParakhAgro Industries Ltd, and 90+ MSMEs from Aurangabad, Pune, Nashik, Jalgaon, Kolhapur, Latur, Jalna, Yavatmal, and Nagpur.

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THE CIRCULAR STORY- WHERE TO BEGIN, now...

There is no definitive beginning or starting point for the circular economy. When people ask “Where do we begin?”, there may not always be an easy answer.

There are, however, several opportunities that are usually presented to companies, governments, NGO’s and other interested groups in any given timeframe. The pandemic has provided an incredibly unique occasion to offer sustainable solutions that position the circular economy into mainstream business practices.

AS the starting point comes from the EU and the UK. For many years now, most primary raw material resources have been consumed and traded from and across the globe via the Asian region, it is surprising more evaluation has not been generated.

Finally, materials efficiency is NOT a waste management solution. The argument here is not the review of the top ten waste streams, such as electronics and plastics due to the ubiquitous problem these products present. To work from this perspective, only reinforces the circular economy hierarchy as presented in the Butterfly diagram with ‘recycling’ as setting up for materials efficiency and using secondary raw materials means collaborating with local industries to map out a resilient economy that future-proof’s local businesses and reduces the risk of supply chain shocks, price volatility and raw material reserves, creating jobs along the way. In a circular system, there is no ‘least valued’ stage if material selection and design work in tandem. Of course, we are nowhere close to achieving that kind of equilibrium yet;

however, by working directly with industry, we can push these specific issues now.

Everything, eventually, reaches an end of use-cycle stage and it is this we must plan around. As we do require a starting point electronics is well known to have significant resource value if extraction processes are done efficiently, and placing plastics on the ‘list’ due to consumer and environmental concerns is a high priority.

In order to achieve a high level of circular goals requires the participation of many different actors. In the early stages there are simply too many moving parts to factor in before a well-oiled functioning apparatus can emerge that balances supply/demand free market economics, consumption patterns, resource usage and biodiversity.



The term ‘recycling’ is inadequate as it does not fully convey the underlying circularity of the system. More appropriate terms are ‘recyclable resource recovery’, ‘resource recovery’ or ‘reprocessing’. These terms are the circular actions needed in a circular system on

an industrial scale; we are recovering resources as inputs for reprocessing into outputs to benefit society.

There has been a reasonable amount of research and analysis undertaken around employment scenarios as government policymaker's map out the transition to the circular economy. A lot of this analysis has been too expansive, choosing to include the whole gamut of circular job opportunities, such as maintenance/repair, sharing economy, recycling and reprocessing industries. This dilutes the potential circular gains and makes it harder to answer the question "Where do we begin?"

By targeting only one component of the circular economy within an economic system - raw material usage - the infrastructure for job creation and secondary raw materials extraction for reprocessing from end of use-cycle products can be defined. Followed up by employment skills, establishing necessary infrastructure, forecasting material usage. There is no reason why an equal number of jobs cannot be created in Asian economies relative to their size that corresponds to the same analysis for the EU.

Core elements of CE(CIRCULAR ECONOMY)

- **Prioritise Regenerative Resources. ...**
- **Stretch The Lifetime. ...**
- **Use Waste As A Resource. ...**
- **Rethink The Business Model. ...**
- **Team Up To Create Joint Value. ...**
- **Design For The Future. ...**
- **Incorporate Digital Technology. ...**
- **Strengthen & Advance Knowledge.**



It is time that circular economy principles be taken in our thoughts and actions and we learn unlearn and learn again our style of doing work and care for our resources and our environment which is the need of the hour and a long way to go in the times ahead.

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Traceability of Plastic Packaging through Life Cycle for Improved EPR

Background

Plastic waste management rules were introduced in 2016. The EPR policy along with its proposed amendments is under issue. Various products have been included under EPR whilst providing multiple models. Traceability of the plastic waste has also been touched upon in the proposed policy. Accounting procedures for the collected/recovered plastic have also been laid down in the proposed policy

Aim

The aim of this concept note is to propose a wholistic solution for traceability of all plastic packaging, especially Single Use Plastic Packaging throughout its lifecycle from manufacture to recovery (recycling).

Present System

In the proposed EPR system, manufactures/ brand owners/producers are mandated to collect the end-of-lifewaste generated. The responsibility may also be met through authorised waste collection agencies or Producer Responsibility Organization (PRO). Once registered the PRO and the manufacturer/ brand owner/ producer would reach an agreement for quantum of waste to be collected for recycling/ reuse purpose. The PROs on their part are required to furnish various document as proof of collection. Other models like product take back mandate, recycling rates targets with tradeable recycling credits and voluntary product take back models have also been discussed.

Drawback(s)

The guidelines as given in the proposed rules state:-

“Producers/importer/brand owner by their own or through PRO required to ensure that an equivalent amount of plastic is being collected and processed”

The rules do not mandate a producer/ brand owner to collect / process the same type of plastic being produced by them. Making waste collection a generic process without much accountability to the respective type of plastic.

As per para 9.13,(of Guideline Document - Uniform Framework for Extended Producers Responsibility - issued by the Ministry of Environment, Forest and Climate Change in June, 2020)a system for traceability of waste (to be set up), puts the onus of reporting and accounting solely on the PROs.Further, since only the quantum of waste collected and processed is being recorded, there is considerable scope for misrepresentation. PROs may find it advantageous to indulge in misrepresentation / multiple accounting of collected waste towards (multiple) brand owners/ producers. The process of inspection of material collected/ recovered gives considerable powers to the inspectors which may lead to further avenues for corruption.

Proposal

RFID Tagging.

(a) It is proposed that all plastic packaging and especially single use plastic packaging be RFID tagged at the brand owner/

manufacturer/ producer level. Thereby, every plastic packaging released into the market would bear suitable data indicating (as necessary) the brand owner/ manufacturer/ producer, location of manufacture, date etc. (brand owners may be permitted to add additional data as necessary onto the tag for internal accounting) This would help in accounting for quantum of plastic packaging produced and released by respective entities.

(b) The advantage of RFID tagging as against QR/ bar codes is that the product need not be kept/ oriented in a specific fashion for scanning. Just its presence on the conveyor/ in a particular location can help identification.

(c) The collected waste when brought in for recycling/ WTE/ Cement plants would be put through conveyor belts (or a suitable mechanism) where all plastic packaging would be accounted for in digital form. A national database with details of production of plastic packaging as well as disposal may be made available to Govt authorities, authorised brand owners/ manufacturers/ producers as well as PROs, recyclers and waste management agencies.

(d) PROs would then have to set up suitable scanners in MRF facilities and a packaging material once accounted for would not be available for double accounting.

The above methodology would entail a marginal increase in cost of production which can be either absorbed by the brand owner/ manufacturer / producer or passed on to the consumer. The initial cost in installation of appropriate machinery for PROs/ waste management agencies/ recyclers could be

subsidized or mechanisms for offsetting plastic credits by the brand owners/ manufacturers/ producers could be considered.

The system would provide adequate visibility and traceability through out the life cycle of the product.

Conclusion

Sustainability in the plastic product life cycle can be achieved only when majority of recyclable plastic is returned to the production chain and only non-recyclables are transferred for purpose of WTE, Incineration or road building. Appropriate traceability of products with limited human interference in accounting of waste collected and recovered would help in making the process transparent and secure.

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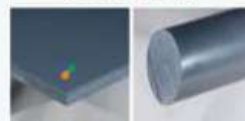
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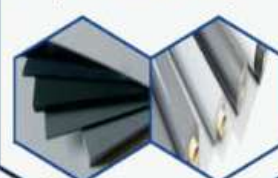
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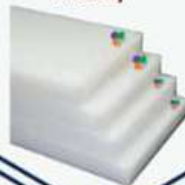
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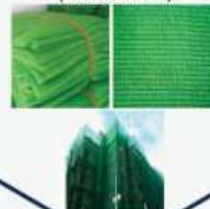
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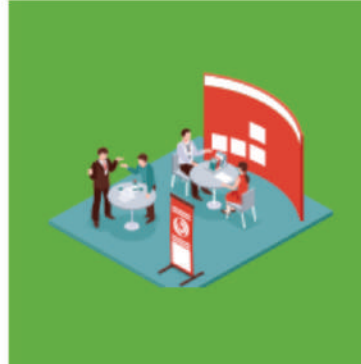
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