



# Plastic Tomorrow

BI- MONTHLY MAGAZINE, BI - LANGUAGE ENGLISH & GUJARATI PLASTIC INDUSTRY PERIODICAL.

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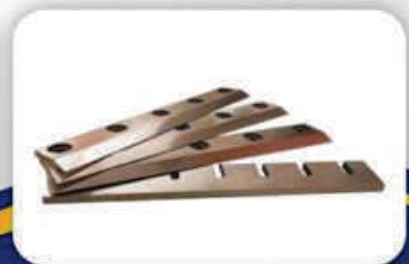
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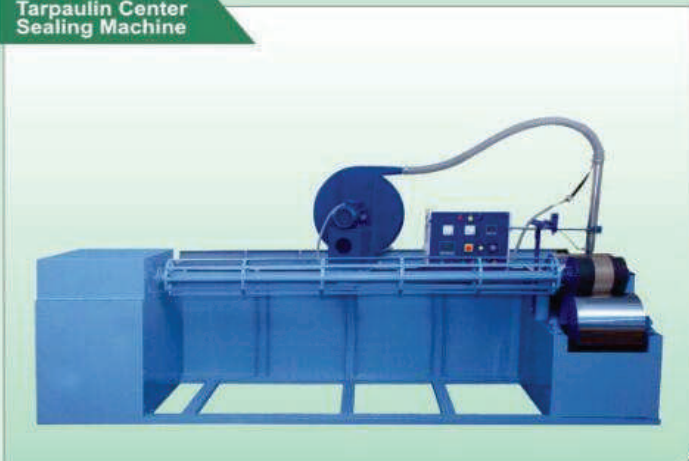
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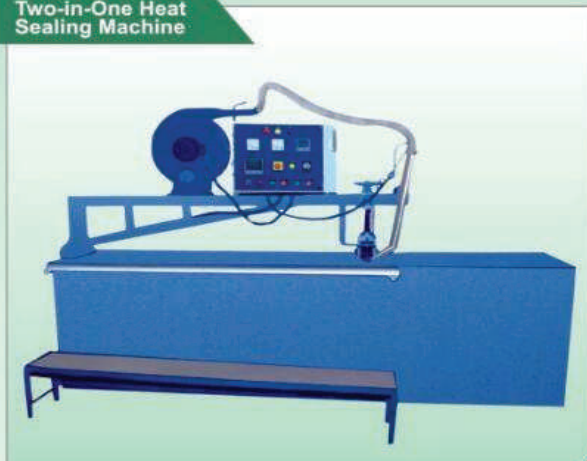
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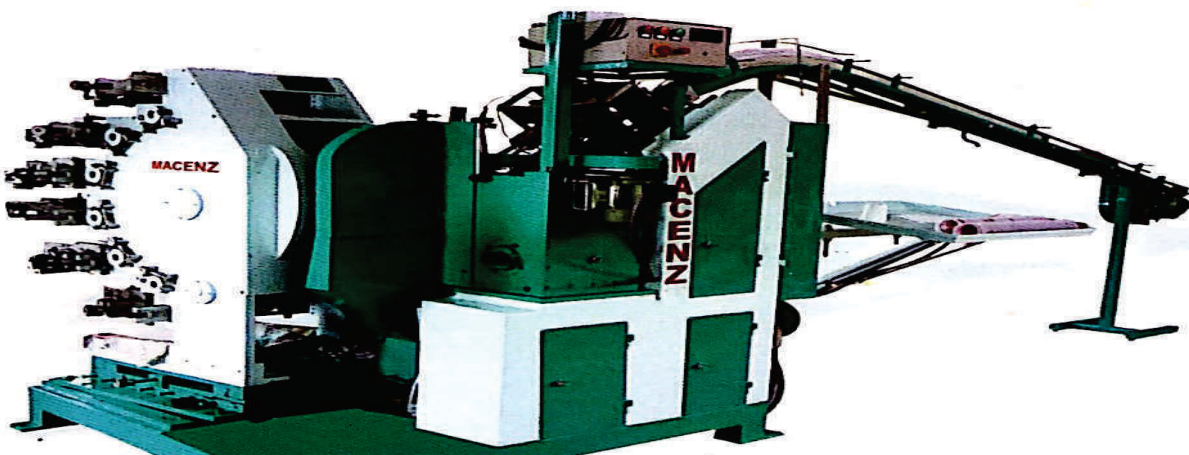
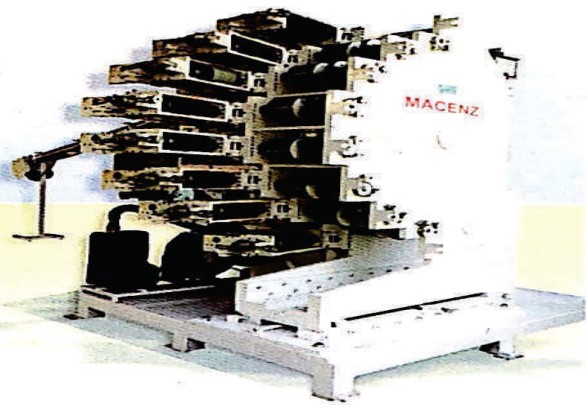
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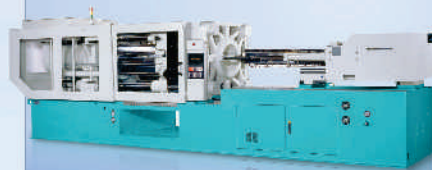


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## SURGICAL INSTRUMENT WITH GREATER COMFORT LED SPA SPECIFIES THERMOLAST® M FROM KRAIBURG TPE FOR LIGHTWEIGHT, ERGONOMIC AND REUSABLE SURGEON PENCIL S

Specializing in the design and production of premium medical electronic equipment, LED SpA has added an innovative handpiece for use in high-frequency surgery to its portfolio. The SURGEON Pencil S provides a number of outstanding features that benefit from the medical conformity, design freedom and aesthetics of KRAIBURG TPE's THERMOLAST® M thermoplastic elastomer compounds.

Unipolar electrode handpieces are important instrumentals in state-of-the-art high-frequency electrosurgery. Together with different active electrodes, they are used for sensitive cutting and coagulating procedures that require a firm and comfortable grip. The novel SURGEON Pencil S from LED, based in Aprilia near Rome (Italy), meets these requirements with several parts molded in different grades of THERMOLAST M. The medical thermoplastic elastomer (TPE) from KRAIBURG TPE was chosen by the device manufacturer because of its well-established performance in healthcare along with the supplier's dedicated customer support, including a comprehensive Medical Service Package.

### Designed for Fatigue-Free Electrosurgery

"For our advanced medical devices and instruments, we rely on high-performance materials that meet all the strict regulations in healthcare while at the same time offering greater design freedom for functional form and innovation," says Fulvio Clementini style designer manager, LED SpA. "The outstanding property profile of THERMOLAST M and the excellent cooperation between our team and KRAIBURG TPE made a significant contribution to accelerating the time-to-market of our SURGEON Pencil S product."

The sleek and ergonomic design of the lightweight (30 g) grey pencil comprises a central handpiece with a screw-on electrode holder, two different-colored CUT/COAG button rings (yellow/blue) and a cable end. The body parts of the tool are two-component moldings with a solid polypropylene core and a THERMOLAST M soft-touch skin. Apart from excellent long-term, direct adhesion from this combination, the TPE overmolding ensures the secure non-slip grip of the tapered instrument for fatigue-free surgery and comfort even in wet conditions. The convex shape of the button rings forms a supporting area for the surgeon's fingers, and the buttons provide reassuring tactile feedback when engaged or disengaged.

The product accommodates electrodes from 2.4 mm in diameter and above, and complies with the safety requirements of AAMI/ANSI Standard HF18 for electrosurgical devices. In contrast to common single-use electrode

handpieces, however, the SURGEON Pencil S can be autoclaved up to 100 times at 134°C thanks to the excellent sterilizability of THERMOLAST M.

### Superior Medical Compliance

KRAIBURG TPE supports customers and molders in healthcare with a unique Medical Service Package that ensures the compliance of its THERMOLAST M with strict international standards of biocompatibility, purity and quality. All medical compounds are exclusively manufactured on dedicated equipment lines. Selected materials are tested and certified to USP Class VI (Chapter 88), ISO 10993-5 (cytotoxicity), ISO 10993-10 (intracutaneous irritation), ISO 10993-11 (acute systemic toxicity) and ISO 10993-4 (hemolysis), as well as free of heavy metals, latex, PVC and phthalates, and offer consistent high purity. The change control management of raw materials used in compounding also covers full traceability of batches on the side of KRAIBURG TPE's suppliers.

In addition, all THERMOLAST M portfolio grades are listed in FDA Drug Master Files (DMF) to document the change control procedure, including prior notification of any changes. KRAIBURG TPE guarantees the continued availability of the original formulation for at least 24 months after notification before such changes come into effect. This provides maximum controlled quality and supply security to customers in the healthcare, pharmaceutical, medical and diagnostic industries.

### Excellent Adhesion and Wide Hardness Range

The medical compounds are available in tailored grades for processing on standard injection molding and extrusion equipment. In two-component applications, they offer excellent adhesion to different thermoplastics such as PP, ABS, ABS/PC and PET.

THERMOLAST M offer high surface aspect and outstanding mechanical properties, including scaled hardness ratings from 10 Shore A to 55 Shore D, and can be sterilized using common ethylene oxide (EtO), superheated steam, as well as beta or gamma irradiation. THERMOLAST M generally is supplied in transparent or translucent colors but can also be colored customized while keeping basic medical compliance.

Visitors to the 26th Fakuma in Friedrichshafen from October 16 to 20, 2018, can obtain information about this and other materials technologies of KRAIBURG TPE from first hand at booth 5303 in hall B5.

FOR MORE INFORMATION

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**COURTESY**

## ELIX Polymers launches product line for consumer sectors with special requirements on safety of use

Tarragona, October 17, 2018 – ELIX Polymers is launching a new line of ABS products under the brand name Chemical Compliance (CC) for applications that include toys, cosmetic containers, and products that come into contact with food. The aim of the new range is to satisfy the requirements of consumers increasingly concerned about the safety aspects of materials that day-to-day products are made from. Reinforced standards applied during production of CC grades will enable ELIX to offer additional guarantees on regulatory compliance during the lifetime of finished products.

The CC line comes with a package of extended services that will help OEMs carry out their product verification and stewardship processes. These services include the provision of documents indicating regulatory compliance for different national and international sectors, and the application to final parts of results from additional tests on the safety of the material in contact with food. ELIX will also conduct product quality and safety tests based on the requirements to which OEMs may be subject.

Grades have been formulated for individual applications, enabling customers to select them according to their specific needs. Injection moulding grades ELIX ABS P2H-CC and ELIX ABS P3H-CC, based on each requirement, are just two of many offerings in the new CC line. They are easy to process and have a high level of brightness as well as intense colours, backed up by a service that will facilitate the product stewardship tasks for the OEMs.

Single-dose coffee makers are an example of the type of application that ELIX is aiming at with the new CC grades. Launching a new machine onto the market requires a large number of tests to be carried out on component materials to guarantee compliance with laws on the safety of their use in contact with food. Such tests can take a considerable amount of time and resources to carry out, with possible effects on the course of development projects.

Ignacio Buezas, Business Development Manager of ELIX Polymers said: "This new

package of food contact materials and services provides a level of compliance support above that generally available from materials suppliers, for clients who have a particular commitment to the safe use of their products and who require that materials exceed the standards required by law."

"With our new product line and consulting service, we take care of a large portion of the work involved in verifying and guaranteeing that not only our ABS materials, but also all the components present in our materials – pigments and additives for example – are compliant with the law."

Buezas added: "Other aspects related with the characteristics of the manufacturing process will also be reviewed and may be adapted to the specific requirements of our clients. Having a thorough knowledge of the client's application and usage allows us to offer them products that best meet their needs."

ELIX Polymers has a vast experience supplying materials to industries subject to strict safety of use regulations for plastic materials; these include medical devices, cosmetic containers, and the toy industry where the use of ABS has been traditionally high. "As a result of this experience, we have reviewed and improved our processes to reinforce the safety of our products targeted at markets where these regulations apply," said Buezas.

This innovative product line further increases ELIX Polymers' services portfolio, which already includes a wide range of specialities for the different segments of the plastics industry. "The combination of products and services together with our knowledge and experience has made the company unique and positions us on the market as one of the leaders in the manufacturing and sale of ABS and derived materials," Buezas concluded.

FOR MORE INFORMATION.

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**COURTESY**



## INEOS styrolution participates at ocean plastics lab in Berlin

- Ocean Plastics Lab to exhibit in Berlin on Oct 21-29, 2018

- INEOS Styrolution contributes to the exhibition's Co-Solution Center with latest information on the ResolVe project addressing chemical recycling of polystyrene

Frankfurt, October 20, 2018 - INEOS Styrolution, the global leader in styrenics, announced today that it will participate at the Ocean Plastics Lab[1] in Berlin. The company will report on its efforts to analyse recycling technologies, establish a commercial and ecological evaluation of the recycling process and ultimately drive towards a circular economy for the materials it brings to the market to allow the realisation of leading solutions in industries such as automotive, healthcare, construction and many more.

INEOS Styrolution shows a continued commitment to establishing recycling processes for materials such as polystyrene. Together with a number of partners, the company currently leads numerous projects to explore different recycling technologies and various aspects of recycling with the goal to bring all findings together into a holistic recycling concept to be realised together with partners across the value chain including post-consumer waste collectors, sorters and recyclers.

### Current projects include

- Collaboration with Agilyx Corporation[2]
- Collaboration with Pyrowave[3]
- Extended collaboration with Pyrowave and Re Vital [4]
- Collaboration on the ResolVe project with INEOS Köln, RWTH Aachen and Neue Materialien Bayreuth [5]

The Ocean Plastics Lab is an initiative of the German Federal Ministry of Education and Research (BMBF), the German Marine Research Consortium and the European Commission. Objective of the exhibition is to show the efforts to understand and solve the issue of marine litter.

INEOS Styrolution's focus at the exhibition will be providing information on the ResolVe project, which is funded by the German Federal Ministry BMBF as part of FONA ("Forschung für Nachhaltige Entwicklung")[6]. The project, led by INEOS Styrolution and executed in cooperation with INEOS Köln, two institutes of the RWTH Aachen (I.A.R. and IKV) and Neue Materialien Bayreuth, is based on the idea of post-consumer waste being feed stock for new materials. It takes advantage of the amazing property of polystyrene to depolymerise to introduce a chemical recycling process closing the loop, linking waste collection and sorting with chemical production.

ResolVe is currently making significant progress due to the deployment of a new adjusted extruder. The latest focus is on purification of the styrene generated from the depolymerisation process, i.e. the separation of styrene from secondary products.

Dr. Norbert Niessner, Director Global R&D Intellectual Property, is thrilled by the outlook: "We at INEOS Styrolution consider post-consumer waste to be a valuable resource for recycling into new virgin, high-quality styrenic polymers, ultimately for food-related uses. We are clearly aiming at the move towards a circular economy for polystyrene."

FOR MORE INFORMATION.  
<https://oceanplasticslab.net/>

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## Plastic Pipes in Infrastructure 2019

### Moving the plastic pipe industry forward

Plastic pipes in infrastructure is organised by the leading plastics consultancy organisation AMI. The seventh edition will see global industry experts come together in Dusseldorf on 9-10 April 2019 for this event.

The conference once again provides a unique networking opportunity and high-level forum for the latest developments and issues in the ever-evolving plastic pipes industry. Featuring a diverse programme of presentations by industry leaders, the focus for Plastic Pipes in Infrastructure 2019 is on new plastic pipe applications, material advances, and developments in production technology, and updates to certification and standards. This event is relevant to those operating in the global pipes industry: from material suppliers to pipe lay construction engineers.

### Addressing pipeline ageing and integrity challenges to increase performance

Suez Groupe opens the conference with a crucial subject covering the effects of ageing on the integrity of plastic pipes. Polymer Competence Center Leoben follow up with a presentation on lifetime prediction of polyethylene electrofusion couplings. Amiblu Technology AS then conclude the first session by presenting the case for 150 years lifetime of GRP pipes.

### Innovation in material, process & applications

KIWA Technology state the requirements for PE100 with raised crack resistance (PE100RC). This is followed by WAVIN GmbH who share information about the advancements in relining technologies. Crosslink Finland OY then talk about the novel developments in Pex-A and Pex-B pipe manufacturing processes. SABIC then share a very interesting and practical presentation on how to respond to environmental changes through water management. McElroy follow up next with some case studies on latest

technologies for fusion welding. Conextru GmbH talk about new applications and performances of pipes with die set rotation leads. Polymer Competence Center Leoben then deliver a presentation on models to assess the effect of chlorine dioxide on the lifetime of polyethylene pipe grades. Hennecke GmbH follow up next with benefits of pipeline insulation by spraying PU. The session is wrapped up by Miki Burmil Consulting talking about plastic manholes to improve infrastructure systems.

### Testing, certification and standardisation

Delegates gain comprehensive insights into testing, certification and standardisation. SKZ-TESTING GmbH talk about energy and time saving method for qualifying PE Pipe grades for long-term applications at 40°C. The session is continued on the second day of the Conference with an opening presentation on the influence of 'onset' temperature by DSC on U-PVC pipes pressure tests result by CEIS. NSF International then share their expertise on how standardisation for plastic products protects public health and safety. Trelleborg Pipe Seals follow up next with a presentation on the evolution of elastomeric joints in plastic pipeline systems and the use of long term stress relaxation testing to predict service life.

### Developments in pipe systems for enhancing durability

Lyondellbasell open the session by discussing ways to advance the PP-RCT performance in water pressure pipes. DOW Europe GmbH follow up next with a presentation on how raised temperature resistance polyethylene (PE-RT) demonstrates reliable performance in hot & cold applications. Conference Sponsor BAUSANO S.p.A then share their views on C-PVC processing. The session is completed by Althesys talking about PVC pipes competitiveness: a total cost of ownership approach.

### Improving quality control and assurance

Conference Sponsor Sikora share their expertise on keeping an eye on diameter, ovality, wall



thickness and eccentricity for quality control during the extrusion of pipes. And finally, Impact Solutions deliver some very useful information on quality control and assurance measures in water and gas plastic pipelines to reduce drastic failures upon commissioning.

In addition to the packed two-day programme of expert presentations this event provides a highly effective platform to meet with likeminded professionals from leading companies and organisations at all levels of the supply chain.

#### About AMI:

We are the leading provider of information, market intelligence and conferences for the

global plastics industry. Our business is underpinned by our talented staff and our unique databases. Our Consultants, Researchers, Writers and Event Organisers include many of the most respected experts in their fields. We can help you grow your business by identifying exciting market opportunities, new customers and innovative technologies from our intimate understanding of the global plastics processing industry, knowledge of how the markets have changed and where they are heading.

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### EXHIBITION DETAIL

INDPLAS'18	KOLKATA	30TH NOV TO 3RD DEC-2018
PLAST SHOW	RAJKOT	5-8 JANUARY-2019
ARABPLAST 2019	DUBAI,U.A.E.	16TH DEC TO 19TH DEC-2018
PLEXPO-2019	MUMBAI	17TH TO 20TH JANUARY-2019
INDIAPLAST	NODIA	28TH TO 4TH MARCH-2019
PLASTI WORLD	DELHI (PRAGATIMAIDAN)	5TH TO 8TH MARCH-2019
IPF BANGLADESH 2019	DHAKA,BANGLADESH	17TH TO 20TH JANUARY-2019
IPLEX-2019	BANGALORE	23 TO 25 AUGUST - 2019
PLASTI VISION-2020	MUMBAI	16TH TO 20TH JANUARY-2020

## Milliken to highlight its clear packaging solutions at Gulfood Manufacturing 2018 in Dubai

- NX™ UltraClear polypropylene (PP) delivers numerous benefits to brand owners
- ClearShield UV Absorber protects PET packaged goods from harmful UV light degradation -- Visit Milliken at Booth C4-44 in Hall 4 at the Dubai World Trade Centre Nov. 6-8

Ghent, Belgium – Leading polyolefins additives supplier Milliken Chemical has innovative solutions to showcase at the upcoming Gulfood Manufacturing 2018 exhibition for clear packaging applications in polypropylene and PET. At that Nov. 6-8 show in Dubai,

Milliken will demonstrate why NX™ UltraClear PP is the optimal, cost-effective option to help brand owners address the growing packaging trends for both resource efficiency and attention-grabbing appeal. Milliken also will demonstrate at the fair how its ClearShield® UV absorber for clear and light-colored PET bottles and containers protects and preserves UV-sensitive packed goods.

Polypropylene (PP) traditionally has yielded an undesirable milky or translucent look when thermoformed into packaging. But Milliken has eliminated that visual shortcoming with Millad® NX™ 8000, which yields NX UltraClear PP that offers glass-like clarity and transparency and can rival such properties usually associated only with PET and polystyrene (PS).

“NX UltraClear PP, which is polypropylene clarified with Milliken's Millad NX 8000, is the ideal material to bring exceptional clarity, aesthetics, lightweighting and increased sustainability to a variety of commercial packaging applications,” according to Samer Kesrouani, Milliken Key Account Manager – ME. “It offers the clarity of materials such as PET, while delivering specific benefits for different processes” — all of which Milliken will highlight at Gulfood Manufacturing 2018 (Hall 4, Booth C-4-44).

### Brand owners benefit from thermoformed NX UltraClear PP

When it comes to thermoformed and foldable packaging, NX UltraClear PP delivers a vast range of property and performance benefits to converters and brand owners, allowing the resin to offer an all-round

packaging solution. It offers glass-like transparency rivaling that of commonly used resins such as A-PET and polystyrene, while also offering a glossier appearance than that normally associated with standard, nucleated polypropylene.

NX UltraClear PP also weighs significantly less than the traditional alternatives. With a significantly lower density than other plastic material options, it reduces the weight of the thermoformed part. PP's density of 0,9kg/m<sup>3</sup> compared to PET's density of 1,37kg/m<sup>3</sup> allows converters to produce significantly more units per kilo of material. Using less material also can help to reduce eco-tax contributions.

Other benefits include greater stiffness and impact strength, excellent sealing effectiveness, hot filling, retort & microwave ability and recycling and sustainability, since polypropylene offers a compelling circular-economy story with strong markets already established for recycled PP in a variety of end products. And as a material, PP consumes the least amount of energy during production and produces fewer carbon dioxide emissions than alternatives.

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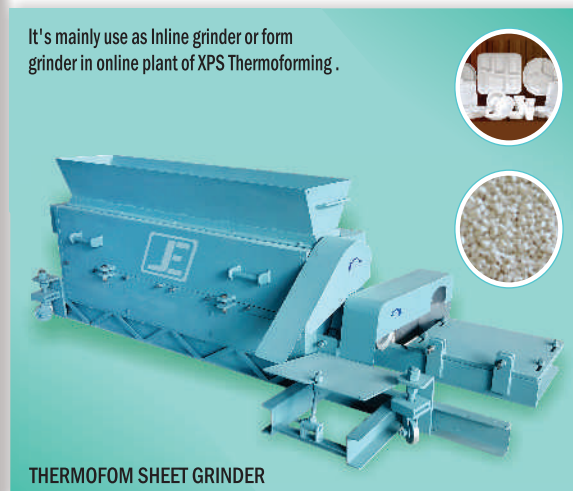
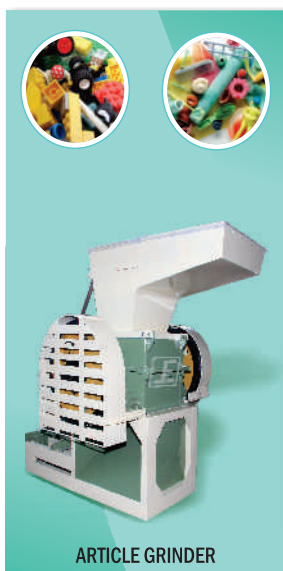
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Mr. Jayantibhai : +91-285-2660047 / Mr. Hiren Gajjar : +91-9825779447  
Mr. Milanbhai : +91-9726375797  
Email : jaydeep@scrapgrinders.com

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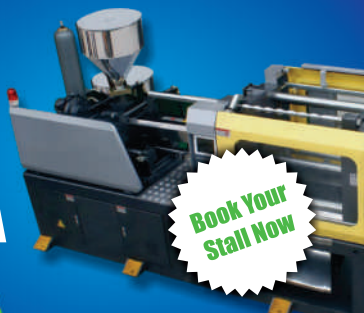
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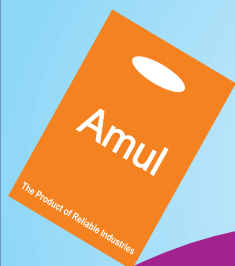
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28 FEB-4 MAR 2019

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Plastics Machinery Manufacturers  
Association of India





The Indian plastics industry continues to excite the world! To add, an event such as Indiaplast 2019 provides just the right platform for global companies to showcase their prowess to the evolved plastics processing industry of India.

The exuberance of Hiroshi Azuma, Vice Chairman & Senior Executive Director, Toshiba Machine, Chennai was clear when he highlighted, "Toshiba Machine will be displaying the latest all-electric machines with attachments to come up as a total solution, servo-hydraulic machines for energy saving and a whole lot of auxiliary equipment and robot systems. Coupled with IoT, we will expose the processors in India to world technology that is emerging from Japan." He further said, "Toshiba Machine is optimistic for this mega event and sure about it adding value to our business in a big way."

Being very bullish about the Indian market and Indiaplast 2019, Hermann Adrigan, Sales Director, Starlinger & Co Ges.m.b.H, Vienna, Austria opined, "India is a major player in the plastics industry with one of the highest growth rates per year. The market is very important to Starlinger, which is why we have our own sales and service centre in New Delhi that supports our local customers. At Indiaplast 2019, we will be exhibiting our latest circular loom for cost-efficient, high-tech weaving of tapes into fabric. In addition, our division of recycling technology will promote closed-loop plastics recycling solutions."

German major, Windmöller & Hölscher, furthering its commitment towards the flexible packing industry here, spelt their mind out. Anuj Sahni, General Manager, Sales & Marketing, Windmöller & Hölscher India expressed, "India has evolved in the last few years to choose the most advanced equipment in the world for plastics processing. A focus for machinery at Indiaplast 2019 for plastics processing will attract lot of interest from the whole industry. We are excited to participate and offer world-leading technologies for flexible packaging production at the show."

Such global technology advancements and more that will be showcased, by over 100 companies from over 15 countries, will surely add significant business advantage to you. Give yourself this opportunity by visiting Indiaplast 2019 (India Expo Centre, Greater Noida, Delhi NCR; 28th February to 4th March, 2019).

Be there, and see tomorrow...today!



# INDIAPLAST 2019: A WINNER IN THE MAKING

At the outset, may I extend a warm 'thank you' to the industry for the overwhelming support and confidence reposed in Indiaplast.

The journey, this far, has been a memorable one. At the last leg now, with under 150 days left for this mega event, we are now embarking on an aggressive visitor promotion campaign across cities in India as well as overseas to make sure that the event attracts quality business visitors, helping exhibitors achieve their business.

This is your event, make the best of it. Looking forward to meeting you all at the show.



**CYRIL PEREIRA**

Managing Director | Triune Exhibitors Pvt. Ltd.

## TOUCHDOWN TO TAKE-OFF

Indiaplast 2019 has taken the industry by storm. After completing its current phase of activities, the organisers are all set to take-off once again with a grueling schedule of roadshows and the last leg of promotions, working hard to put together an unforgettable event for each one of us.



If you identify a relevant event – exhibition, conference, industry gathering; most often than not, you would find Team Indiaplast there, not tucked away in the corner, but actively interacting with the industry stakeholders and updating them on the current status on the event – urging them to participate or visit. The venue was different each time, so were the days; many times, the country as well...but the agenda was clear, 'to make a mark with Indiaplast'.



With many milestones dotting the journey of Indiaplast, the prospective visitors wanted to know more. Their sentiment was evident at the recent events held, where the industry turned out in big numbers showing its solidarity to the show. A number of such similar events that were a part of the horizontal and vertical spread of the promotional activities of Indiaplast 2019, were meticulously carved out to reach out to the stakeholders that mattered, on a one-to-one basis.



Seems like that there is just enough time (at times!) to touchdown, so as to take-off for the destination-next!

# INDIAPLAST 2019: EVOLVED TO ADDRESS INDUSTRY NEEDS

Plastics Machinery Manufacturers Association of India (PMMAI) was founded with the objective to maximise benefits for its members in all spheres of business and not for organising exhibitions. Over a period of time, the members realised the dire need to promote an exhibition specifically in or around Delhi, but with low cost of participation for the exhibitors. Indiaplast 2019 is thus an 'evolved' exhibition bringing in vast experience from the leading plastics machinery manufacturers of India. The objective is clear - to promote and demonstrate home-grown technology. While the strategy is formulated and controlled by PMMAI, the actual execution is entrusted in the able hands of Triune, the organisers of successful shows like Plastasia.

Indiaplast is Indian plastic industry's first-ever exhibition to be held in the largest integrated venue in the country - India Expo Centre at Greater Noida, on the outskirts of Delhi. It has centrally air-conditioned halls with a carpet area of 70,000 square metres and a plethora of amenities - business lounges, robust security, metro connectivity, eateries, uninterrupted power supply, parking for 8000+ four wheelers and much more.

The focus of Indiaplast is to create space and opportunity for each exhibitor to showcase world-class, yet affordable solutions for the plastics industry. Pricing for space, facilities, branding and services have been 'evolved' to ensure it remains extremely lucrative for the exhibitors, thus contributing to low cost of participation. Promotional events for visitors continue to be organised with quality in mind and not quantity. We, at PMMAI, are confident that it will successfully serve its objectives.



**SUNIL JAIN**  
Director | PMMAI

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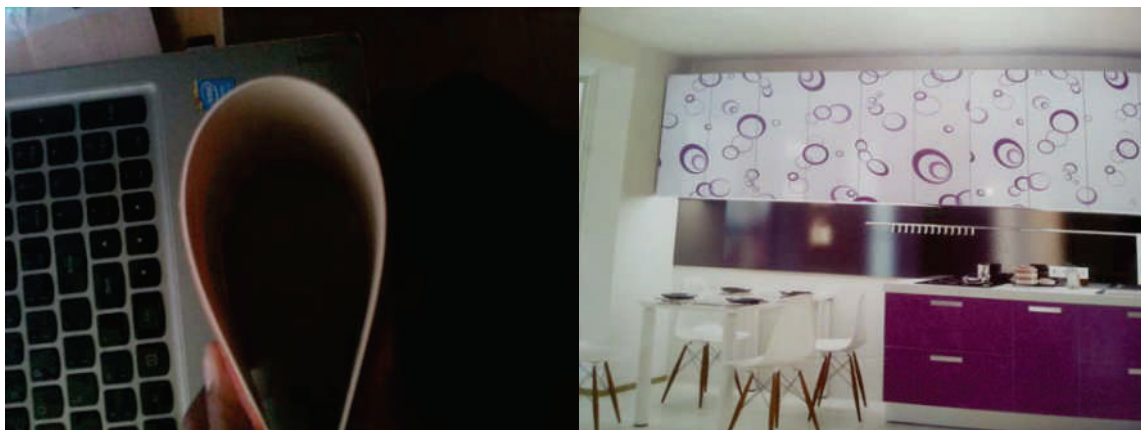
'Originally published in Oct-Nov 2018 Issue of POLYMERS Communique'



Save wood, protect forests

The world is changing fast and for the better tomorrow. There is one more product to assist the goal to avoiding deforestation.

Like people started replacing wooden plywood with PVC plywood, now the laminates made with paper and polluting formaldehyde is also being replaced by PVC +CaCO<sub>3</sub> made laminate.



The benefits are:

- Saves trees
- Saves lot of water
- Can be folded many number of times
- Water-proof, Maintenance-free, termite-proof,
- Easiest and most economic to manufacture.
- Can be made in thicknesses like, 1.2 mm / 1mm / 0.9 mm / 0.8 mm / 0.72 mm

Important data:

Project costs: Rs.	
Machinery Landed cost in INDIA.	17500000
Land 2 acres	7000000
Building 7000 Square foot	7000000
EB cost and all Utilities	3500000
Installation and commissioning	300000
Consultant's cost	500000
Total initial investment.	3,58,00,000

And so even smaller individual entrepreneurs can enter in to this business.

In INDIA some traditional laminate manufacturers have started entering in to such business already. Not only unorganized sector but organized sector product manufacturers also are eying this business.

Now note most important data on this business which is true guide to go in for this business.

PVC Laminate making business.		Realization value is : ONE	
Cost per sheet works out to be Rs	715.12	1213	
Profit per sheet is		497.8791676	
Assuming production of just 300 Kg per hour			
No of sheets made per hour	50.847		
Profit per Hour works out to be		25315.89224	
NO of sheets made per year can be	317288		
Profit per year can be		157971167.6	312 days and 20 hours/ day

Assume that working only for 300 days and not 312 days		151895353.4	300 days and 20 hours
Assume further that work for 18 hours / day and not 20 Hours		136705818.1	300 days and 18 hours
Assume losses / wastage of overall 10%		123035236.3	wastage of 10 %



Welcome to us to discuss in case interested.

KAMAL SHAH, Ahmedabad.

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9624112091 / 9879552875

**The author is a consultant based at Ahmedabad assisting to set up new projects right from Scratch.**

Disclaimer: All the figures and data are collected from Industries from time to time and readers' discretion is advised.

### New and most lucrative project for INDIA: SPC Flooring Making.

Luxury Vinyl Tile known as in EUROPE and USA which is now being replaced with Stone plastic composite as known in CHINA, the replacement of wooden flooring is the best business opportunity now for us.



- Replacing Wood entirely, avoiding issues of smell, termite, maintenance.  
Government can think of Subsidy on this.
- Plastic (PVC) and Calcium Carbonate ( $\text{CaCO}_3$ ) have proved great blessing courtesy high strength, no woody smell, no water, termite effect.
  - Is usually made be the following dimensions.

Length	950, 1220, 1850 mm
Width	125-200 mm
Thickness	4-10 mm



Stone Plastic Composite Flooring making plant.

- The production process is simplified as the extrusion Plus Calendaring of  $\text{PVC} + \text{CaCO}_3$  with additives, makes the base upon which PVC film and wear layers are hot-laminated on-line, then UV Coated and then slit in to needed sizes and then Milled for the edges to make them coupled in to each other while lying on the floor as below.

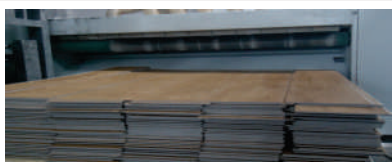




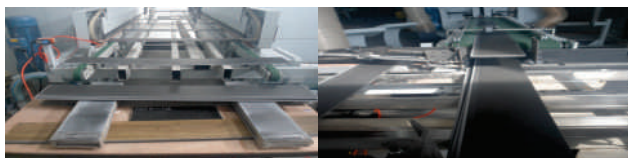
- i.e. Machinery to mix & prepare raw material in first stage of extrusion, then extrude board profile with Lamination of film and Wear layers, then UV coat, And then CUT to size and then Milled for coupling arrangement.
  - Made from PVC and CaCO<sub>3</sub> in the ratio of 1:3 which is too good for the cost of production and also strength and durability of the product.
  - With the plant and machinery cost of about Rs 3.5 Cr. Landed (With Duties and inclusive of UP plant, and slitting plant and also Double edge milling plant) and total approximate project cost of about Rs. 6.35 Cr can start this business. (i.e. Land + Building + Utilities and Machinery all put together)
  - Depending upon the realization, the annual profit can be Rs 3.85 Cr. AND So this business is one of the best these days within medium investment range.
- i) Best Technology, France assisted machinery manufacturing form Class manufacturers. Genuine after sales support.
  - ii) High class product to be made at minimum costs of raw material.
  - iii) Assistance in INDIA by a professional for the honesty in supplies from CHINA.

Why go in for this business?

- Huge Market to replace Costly and environment eroding wood Demands.
- Cheaper
- Huge export potential like what China is doing.
- Massive expansion opportunities.
- No hazards on Environment.
- No other fuel needed except electricity to process and produce.
- About 60% return of Invested capital possibility within first year.
- Easiest laying on the floor without any sort of glue,
- No Stink / No moisture / NO termite peril. AND SO LONG Life.
- Many types and kinds of color + Design available.
- NEW AND HIGHLY PROFITABLE BUSINESS for the Country.



Slat Board in to Planks post UV coating.



For Sides- Edge milling process – TO make Male-Female coupling.  
The Author, Mr. Kamal Shah, is Ahmedabad based consultant, assisting to set up  
Lucrative and new projects.

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## અનેક સમસ્યા વચ્ચે પીસાઈ રહેલે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝ

પ્લાસ્ટીક પ્રોડક્ટ્સ માટે ભારત વિશ્વમાં ઘણા ક્રમાક ધરાવે છે. સમગ્ર દેશમાં આ ક્ષેત્ર માં ઘણા એકમો આવેલા છે. તદ્ ઉપરાંત પ્લાસ્ટીકનો ઉપયોગ આજે મોટા ભાગની ઈન્ડસ્ટ્રીઝ વિવિધ ક્ષેત્રે કાર્યરત છે. ગુજરાતની વાત કરીએ તો આ ક્ષેત્રમાં ગુજરાત રાજ્યનો સિંહ ફાળો છે. જેમ કે અણદાવાદ, વડોદરા, હાલોલ, વાપી, વલસાડ, દમન, સીલ્વાસા, સારીગામ, રાજકોટ, સુરત જેવા વિસ્તારો પ્લાસ્ટીક ઉદ્યોગનાં મહત્વના કેન્દ્ર છે. એક અંદાજ મુજબ વડોદરા, અમદાવાદ, હાલોલ, વાપી, વલસાડ વગેરે માં મોટી સંખ્યામાં એકમો કાર્યરત છે. જેમ કે મશીનરીની બનાવટ, રો મટીરીયલ તેમજ મોલ્ડીંગ પ્રોડક્ટ્સ બનાવનારા ઉદ્યોગો ફેલાયેલા છે. સમગ્ર દેશમાં ફેલાયેલ પ્લાસ્ટીક ઉદ્યોગ હાલ કઠીન સંજોગોમાંથી પસાર થઈ રહ્યો છે. એકાદ બે નહીં બલ્કે અનેક સમસ્યાઓને કારણે આ ઉદ્યોગ મૂરઝાઈ રહ્યો છે. દેશમાં હાલમાં ઓદ્યોગીક ક્ષેત્રે લાબા સમયથી મંદીના કારણે મોટો માર સહન કરી રહ્યો છે. વધતા ઉત્પાદન ખર્ચ, વધતા કાચા માલનો ભાવ અને વપરાસ કરનાર ગ્રાહકો દ્વારા ભાવ વધારો નહીં આપવા વિરોધ વચ્ચે હાલમાં સમગ્ર દેશમાં કરોડોના પ્લાસ્ટીકના ઉદ્યોગની હાલત સુકા ઝાડ જેવી દુકાળગ્રસ્ત જેવી હાલતમાં પીસાઈ રહી છે.

પ્લાસ્ટીક ઉદ્યોગમાં ચાલી રહેલી મંદીના કારણે તેમજ સતત ભાવ વધારા વચ્ચે મોટા ભાગના કારખાના મરવાના વાકે જીવી રહ્યા છે. મશીનરી બનાવટના સેક્ટરની ઈન્ડસ્ટ્રીના અગ્રણીઓને ડર છે કે બજારમાં જ્યારે માંગમાં વધારો થશે ત્યારે કેટલી ઈન્ડસ્ટ્રીઓ કાર્યરત હશે. પ્લાસ્ટીક હાલમાં દરેક ક્ષેત્રોમાં જેમ કે ઓટોમોબાઈલ ક્ષેત્રે, ટેક્સ્ટાઈલ ક્ષેત્રે, ઓટો પાર્ટ્સ, મશીનરી, મત્સ્ય ઉદ્યોગ, ઇલેક્ટ્રીકલ

ઉપકરણો વગેરે જેવા ઉદ્યોગોમાં માંગ ઘટતા પ્લાસ્ટીકના માલના વેચાણને સીધો માર પડ્યો છે. આ ઓછું હોય તેમ ત્યાં ઉત્પાદન ખર્ચ વધતાં દુકાળમાં અધિક માસ જેવી પરીસ્થિતિ સર્જાઈ છે. પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝના વેપારીઓના જણાવ્યા પ્રમાણે કાચા માલના ભાવમાં સતત વધારો રહ્યો છે. છેલ્લા અમુક સમયથી કાચામાલના ભાવમાં અદાજે ૮૫ % વધારો થયો છે. આ ઉપરાંત મોટા ભાગે મશીનરી મોઢી થઈ રહી છે. કારીગરોની અછત, વીજળી ખર્ચમાં ખાસ્સો વધારો થઈ રહ્યો છે. આ બધું ઓછું, હોય એમાં કેન્દ્ર સરકાર કે રાજ્ય સરકાર ના નિયમો ની ઘણી સમસ્યાઓનો સામનો કરવો પડે છે. ભારતમાં પ્લાસ્ટીક ઉત્પાદનમાં ૩૫% મોટા એકમોનો હિસ્સો રહેલો છે. જ્યારે મધ્યમ અને નાના એકમોનો ૬૫% હિસ્સો હોય છે.

ઈન્ડસ્ટ્રીઝ માં ટકી રહેવા માટે અને મંદીના મોહોલ વચ્ચે ઉત્પાદન જારી રાખવા માટે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝના વેપારીઓને સરકારના ટેકાની જરૂર હોય છે. ઓછી માંગ વધતા બાબતને કારણે એમનીના નાણાંકીય હાલત ઘણી નાજુક થઈ ગઈ છે. આ દરમિયાન મજૂરોના વધતા પગાર વધારાને કારણે કારીગરની અછત જોવા મળી રહી છે. આ ઉદ્યોગ માટે હાલનો સમય ખરેખર ઘણો કપરો સમયમાંથી પસાર થઈ રહ્યો છે. સરકારે ગ્લોબલી વિચારવાની જરૂર છે. તોજ આ ઈન્ડસ્ટ્રીઝ આગળ જતા બચીસકે. ૪૦ (ચાલીસ) માયક્રોન નો કાયદોશુ સમગ્ર વિશ્વના અન્ય દેશોમાં છે તેની ન્યાયીક તપાસ કરાવે તોજ સાચી હકીકત થી સરકાર માહિત ગાર થઈ શકે શે.

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