



# Plastic Tomorrow

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

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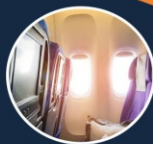


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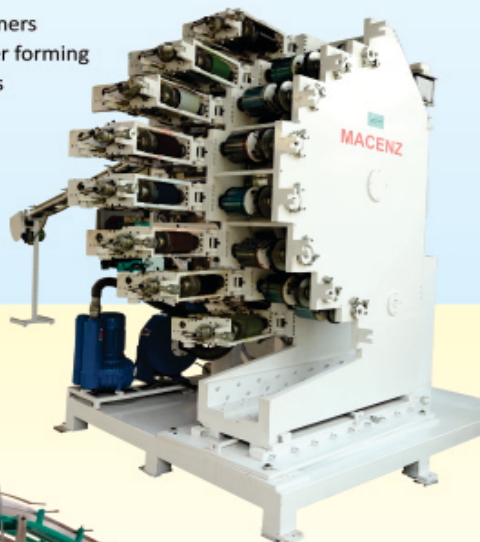
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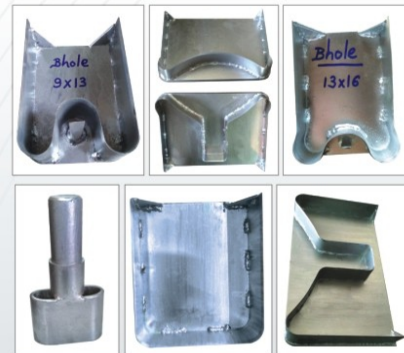
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## BEAULIEU FIBRES INTERNATIONAL LAUNCHES ULTRABOND, THE COST-EFFECTIVE SOLUTION FOR FULLY RECYCLABLE, LATEX-FREE, SUSTAINABLE CARPETS



- Latex-free: UltraBond allows 100% recyclable thermal bonded nonwovens
- Sustainability & cost-efficiency: significant reductions in CO<sub>2</sub> emissions and energy and water consumption for manufacturers of needlepunched exhibition & contract flooring
- UltraBond debuts at Domotex 2019 Stand B56 Hall 11

Beaulieu Fibres International (BFI) unveils a unique opportunity for carpet manufacturers to create fully recyclable needlepunch carpets, and benefit from production and resource savings, without influencing performance.

Launched at Domotex 2019, new UltraBond is a patented polyolefin bonding staple fibre that eliminates the need for latex or other chemical binders to bind nonwovens. It opens up a new path for creating 100% polypropylene (PP) needlepunch carpets which meet the same performance requirements as traditional latex-bonded carpets while reducing the end-of-life environmental impact. Functional properties such as pilling resistance, resistance to wear and abrasion, and also UV resistance are guaranteed.

Using UltraBond manufacturers finally gain the potential to cost-efficiently produce 100% recyclable carpets. In addition to the general benefits of making recycled PP available for the plastics production chain and reduced waste generation, environmental advantages and financial savings arise from a total lack of water and less energy use. As a 100% dry process, thermal bonding uses no water and results in a total absence of waste water. There is also a reduction in the VOC level of the carpet. This all leads to a significant reduction in a needlepunch carpet's ecological footprint.

The sustainability benefits are quantified through lifecycle analysis (LCA) of an exhibition carpet application – among the primary applications for needlepunch carpets. Evaluations show that the absence of water consumption directly translates into a large energy saving of 93% when using UltraBond compared to a latex bonding solution, and also a potential annual water saving of over 20 million litres for 100 million m<sup>2</sup> of exhibition applications in the EU. Without the addition of any other bonding agent, CO<sub>2</sub> emissions are reduced by 35% over the full production process.

Karena Cancilleri, Vice President Beaulieu Engineered Products, Beaulieu International Group, commented, "Recyclability and achieving a greener, more cost-effective production process without compromising on current performance levels are significant unsolved topics within today's carpet industry. By eliminating the need for latex and chemical binders through UltraBond, we offer needlepunch manufacturers a breakthrough they have been looking for that boosts environmental and economic sustainability. We see textile flooring as just the beginning. Together with our customers, we look forward to exploring the potential of this unique thermal bonding fibre in other applications such as laminated nonwovens or as an alternative to dry powders."

[www.beaulieufibres.com](http://www.beaulieufibres.com)

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### An affiliate of Sun European Partners, LLP completes the sale of its investment in ELIX Polymers to Sinochem International



**Sun European Partners, LLP today announces that one of its affiliates has completed the sale of its investment in ELIX Polymers, a leading manufacturer of ABS (Acrylonitrile-Butadiene-Styrene) resins and derivatives in Europe, to Sinochem International (Overseas) Pte. Ltd. for an enterprise value of €195 million.**

ELIX was acquired by an affiliate of Sun European Partners in 2012. Since its acquisition, Sun has overseen the transformation of the Company from operating as a production-focused unit of a large chemicals conglomerate into a European standalone market leader with a best-in-class product and service offering. Operational initiatives at ELIX, including the introduction of lean manufacturing and commercial excellence, led to a considerable jump in

productivity, record levels of customer satisfaction and strong sales increase, resulting in EBITDA quadrupling during Sun's ownership.

Lionel de Posson, Managing Director at Sun European Partners, said: "We are pleased to have completed our sale of ELIX. The progress made by the Company during our ownership allowed for a successful exit and we continue to actively seek further investments in Spain."

ELIX Polymers now begins a new stage in its more than 40 years of history under new Chinese ownership and they consider this a great opportunity for international growth in the Asian market. From the outset, ELIX has focused on the European market and subsequently growth in the NAFTA region, specifically in North America and Mexico. The next step agreed within its business strategy was to target Asia and China in particular.

The integration of ELIX into a chemical group as important as Sinochem International will enable them to position the brand quickly in the Asian market and strengthen it in the European and American markets.

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I Dinesh Jivanlal Shah here by declare that the particular given above are true to the best of my knowledge and belief.

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- Hydraulic Press Machines

Tarpaulin Center Sealing Machine



Two-in-One Heat sealing Machine



Tarpaulin Side Sealing Machine



Tarpaulin Mini Heat Sealing Machine



Tarpaulin Mini Side Sealing Machine



Tarpaulin Hydraulic Bale Press Machine



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## EMG hosts Additive Manufacturing Forum in Shanghai at world's first 3D printing museum



Event draws together diverse group of participants to present and discuss the latest developments in 3D printing reshaping the future of manufacturing industry

EMG, the leading international B2B and industrial communications specialist, successfully completed its first 3D Additive Manufacturing forum in Shanghai on January 18, 2019. The event drew together over 30 speakers and delegates from industry, academia and media, and was jointly organized by EMG, Chuang Ke Jia Technology, the official name of the world's very first and only dedicated 3D printing museum located in Shanghai, and Nanjixiong.com, China's leading media outlet focused on 3D printing/additive manufacturing.

Highlights from the event involved keynote presentations from resin and equipment makers, providing a platform for discussion and idea-exchange for local Chinese and international companies, industrial experts, research and academic institutions and key media outlets on the latest news and developments in the field.

EMG's International Director John Gallagher, 3D Printing Cultural Museum Curator Ms. Julie Zhu, and Nanjixiong.com Chief Editor Mr. Pan Jinsong were the official co-hosts and delivered welcome speeches to the audience of over 30. Other key speakers included: Yao Zhijian, Key Account Manager from HP; David McCann, Senior Business Architect from Clariant; Cai Wanquan, Director of Operations from Aurora; and Tang Luji, technical Director Industrial Design at Qiaoliang.

In recent years, Additive Manufacturing (known as "3D printing") has made impressive progress in the areas of equipment, material, technology and application. China is at the heart of this development and the potential for growth is substantial. Statistics show that China's 3D printing market was estimated at RMB 8.2 billion in 2017, but the fast growth and demand has raised a few challenges. Failure to find suitable opportunities for industrialization, the lack of talent in the industry and the high cost of 3D printing have now become the main development bottlenecks for current China's 3D printing market.

John Gallagher, EMG China said, "As a world-leading B2B marketing and communication agency, we have many clients in the resins, additives and equipment fields focused on 3D printing."

We are extremely proud and honoured to organise this forum to provide a professional platform for leading 3D printing enterprises, industrial experts and leading media here in China where they can share the latest trends and insights, exchange ideas and encourage more innovation and growth. This event also provides a timely build up to the TCT Asia exhibition, which will be held in Shanghai from February 21-23 where EMG will be present supporting a number of our clients."

Ms. Julie Zhu, Curator of China 3D Printing Cultural Museum said, "The China 3D Printing Cultural Museum, 3D Printing Start-up Space and 3D Printing Research Center was established to create an eco-system and promote industrial development. With this forum held in Wisdom Bay today, we hope to connect every industrial innovator and trailblazer. At the beginning of the New Year, we gathered with industry experts from many well-known enterprises to deep dive into the global development trend of 3D printing and share the successful cases of 3D printing industry. The forum has been a great success. It has helped promote the establishment of 3D printing ecosystem and lead the Industry 4.0 era."

David McCann, Senior Business Architect from Clariant commented: "Clariant has recently entered into the 3D printing industry underpinned by its global resources and knowledge of specialty chemicals and resin materials. Clariant provides high quality materials and professional services to the 3D industry here in China and around the world. Thank you EMG for providing this great platform and hope we can have more opportunities to cooperate with enterprises in the 3D industry chain in the future."

James Yao, Key Account Manager at HP commented: "We are very glad to have this opportunity to introduce our HP digital transformation to the 3D industrial players. I hope EMG will hold more events like this in the future so we can continue to communicate and interact with many upstream and downstream enterprises to help drive the 3D industrial development."

Mr. Pan Xuesong, chief editor of Nanjixiong said: "China's 3D industry is constantly changing. Companies need to always pay attention to the overall changes and adjust their development strategy accordingly. In 2018, all the 3D printing enterprises in the world received more than RMB 20 billion of investment which is more than double the amount in 2017. In the economic winter, the 3D printing industry has been continuously recognized by the capital. It has passed the hype period and has entered a solid stage of development. We are optimistic about the future of the 3D printing industry."

Julie Zhu, 3D Printing Cultural Museum curator, commented: "The forum was very successfully organized. It gathered a diverse mix of people involved in the 3D printing industry and generated lots of discussion and networking. Everyone was very pleased with the event."

In addition to the discussions by leading 3D industry experts, the forum involved a brief tour of the 3D Printing Cultural Museum followed by a visit to the world's longest 3D footbridge, located next to the museum.

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### TE Connectivity wins 10th Top Employer Award



**TE Connectivity (TE), a world leader in connectivity and sensors, has been recognized for the 10th time as one of the best employers in Germany for 2019 by the Top Employer Institute (TPI), an independent HR certification company. TE Connectivity has received the award for being a Top Employer in the Engineering sector.**

Recognition by the TPI follows a multi-stage evaluation process in which personnel planning, talent strategy, corporate culture, performance management, career planning and other employee metrics are assessed. Only employers who meet TPIs highest standards receive the award and certification.

Since first receiving the Top Employer reward in 2008, TE Connectivity has received the award 10 times. This underlines TE Connectivity's consistent efforts to offer outstanding career opportunities and fostering Gengnagel of TE Connectivity in Germany. "However, we do not want to be complacent, so we will continue to improve in cooperation with our teams. Our prime favorable working conditions for technical professionals and engineers. In addition, TE Connectivity offers many opportunities for students and young professionals: Dual degree programs, thesis initiatives and support, international exchange

programs for young professionals as well as mentoring programs.

As a responsible company, TE is engaged in the initiative JOBLINGE, where the company supports at-risk youths entering the job market. With the program, students are supported with scholarships and acquire important social skills and job-related competencies in group projects. Through a six-month, intensive program, the youths also receive guidance on personal strengths and suitable career paths.

With more than 14,000 patents, TE ranks among the top 100 most innovative companies worldwide. TE Connectivity connectors and other products can be found in nearly all everyday products, which contain electrical or electronic components. These products range from automobiles to washing machines and televisions.

Throughout its sites in Germany, TE Connectivity puts its award-winning talent strategy into practice by introducing innovative and promising measures. In doing so, TE Connectivity takes up its role as a responsible employer within Germany.

"Receiving our 10th TEI certification clearly demonstrates that TE consistently achieves the highest standards as an employer," said Regine objective is to be the very best for our employees, business partners, customers and other stakeholders."

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# 

## The 33<sup>rd</sup> International Exhibition on Plastic & Rubber Industries Smart Manufacturing – Innovative Materials – Green Solutions

21 – 24 May 2019, Guangzhou - China

By Om Prakash, Director InORBIT Tours Pvt. Ltd., official tour operators in India

Mumbai, 2<sup>nd</sup> February 2019

### Chinaplas 2019 to revolutionise Indian Plastic Industry

As the World's leading plastics and rubber trade show, the 33<sup>rd</sup> edition of Chinaplas will continue to lead the development of China's plastic and rubber industries by focusing on smart manufacturing, innovative materials, green solutions. The fair is expected to attract **more than 3500+ exhibitors, 3800+ Machine Exhibits and 180000 visitors from 150+ countries & regions in an exhibition area of 250000 sq.mtrs.** to be held in China Import & Export Fair Complex, Pazhou, Guangzhou, PR China on 21 – 24 May 2019.

Log on to: <https://www.chinaplasonline.com/ExhibitorList19/idx/eng/?src=29011> to get more information about the exhibitors.

### Smart Manufacturing

- New sensor technology
- Additives manufacturing
- Precision, automated molding equipment
- Integrated equipment (e.g. multi-station/multi-color injection machines)
- Smart production system (e.g. automated, interconnected production lines)

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- Offering resistance to high pressures, corrosion and extreme temperatures
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- Smart Manufacturing Technology Zone

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- Recycled Plastics Zone
- Semi-Finished Products Zone
- Thermoplastic Elastomers & Rubber Zone

### ***Special Travel Package by InORBIT Tours Pvt. Ltd., official travel agents in India:***

It will not be out of place to mention that InORBIT Tours Pvt. Ltd., has been operating large groups of plastics and rubber industries to Chinaplas every year. InORBIT is fully geared to accept the registrations of Indian visitors to **Chinaplas 2019**, said Mr. Om Prakash. More information regarding Chinaplas 2019 and the special travel arrangements can be obtained from Mr. Om Prakash, Director – InORBIT Tours Pvt. Ltd., call tel: 022 – 24229281/40436868 or email: [omprakash@inorbittours.com](mailto:omprakash@inorbittours.com)

The Show information is obtained from the Organisers and can be downloaded from their website: [www.chinaplasonline.com](http://www.chinaplasonline.com)

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19 <sup>th</sup> May	Depart Ahmedabad	Assemble at Mumbai/ Delhi airport at 11pm																																												
20 <sup>th</sup> May	Arrive Hong Kong.Ferry from Hong Kong airport to Shekou / Lianhuashan port. Transfer by Coach to Guangzhou Hotel (approx time 2 hrs) Check in. Indian Dinner at the hotel. Overnight.	Depart Mumbai/Delhi Arrive Hong Kong.Ferry from Hong Kong airport to Shekou / Lianhuashan port. Transfer by Coach to Guangzhou Hotel (approx time 2 hrs) Check in. Indian Dinner at the hotel. Overnight.																																												
21 <sup>st</sup> May	Breakfast at the hotel. Attend CHINAPLAS 2019 Indian Dinner at the hotel. Overnight	Breakfast at the hotel. Attend CHINAPLAS 2019 Indian Dinner at the hotel. Overnight																																												
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24 <sup>th</sup> May	Breakfast at the Hotel. Check out Transfer to Shekou / Lianhuashan port. Ferry to Hong Kong Airport. Depart Hong Kong	Breakfast at the Hotel. Check out Transfer to Shekou / Lianhuashan port. Ferry to Hong Kong Airport. Depart Hong Kong																																												
	<b>Ex: Ahmedabad</b> <table><tr><th>Flt No</th><th>Date</th><th>Sector</th><th>Dep/Arr</th></tr><tr><td>SQ 531</td><td>19MAY</td><td>AMD-SIN</td><td>2250/0710</td></tr><tr><td>SQ 856</td><td>20MAY</td><td>SIN-HKG</td><td>0955/1355</td></tr><tr><td>SQ 891</td><td>24MAY</td><td>HKG-SIN</td><td>1225/1620</td></tr><tr><td>SQ 530</td><td>24MAY</td><td>SIN-AMD</td><td>1835/2135</td></tr></table>	Flt No	Date	Sector	Dep/Arr	SQ 531	19MAY	AMD-SIN	2250/0710	SQ 856	20MAY	SIN-HKG	0955/1355	SQ 891	24MAY	HKG-SIN	1225/1620	SQ 530	24MAY	SIN-AMD	1835/2135	<b>Ex: Mumbai / Ex: Delhi</b> <table><tr><th>Flt No</th><th>Date</th><th>Sector</th><th>Dep/Arr</th></tr><tr><td>CX 660</td><td>20MAY</td><td>BOM-HKG</td><td>0135/0940</td></tr><tr><td>CX 663</td><td>24MAY</td><td>HKG-BOM</td><td>2010/0025 + 1</td></tr><tr><td>Flt No</td><td>Date</td><td>Sector</td><td>Dep/Arr</td></tr><tr><td>CX 694</td><td>20MAY</td><td>DEL-HKG</td><td>0105/0920</td></tr><tr><td>CX 697</td><td>24MAY</td><td>HKG-DEL</td><td>2005/2355</td></tr></table>	Flt No	Date	Sector	Dep/Arr	CX 660	20MAY	BOM-HKG	0135/0940	CX 663	24MAY	HKG-BOM	2010/0025 + 1	Flt No	Date	Sector	Dep/Arr	CX 694	20MAY	DEL-HKG	0105/0920	CX 697	24MAY	HKG-DEL	2005/2355
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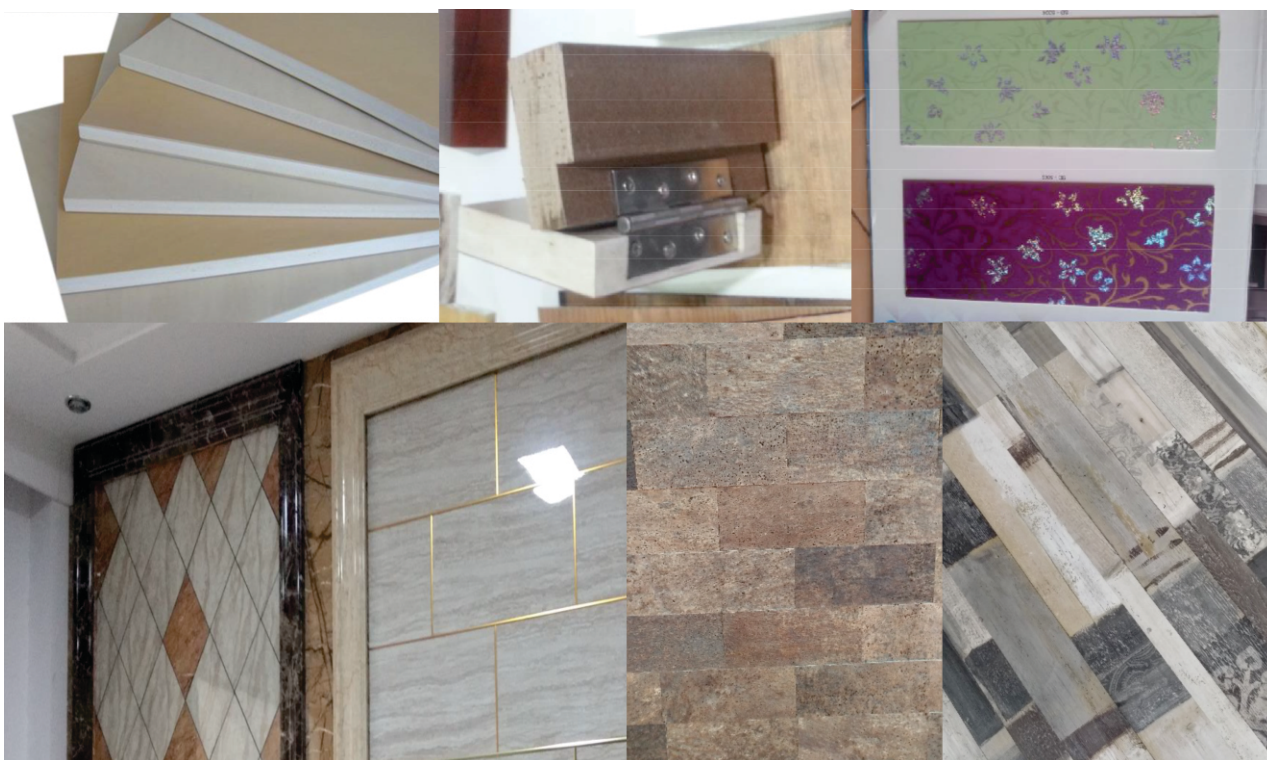


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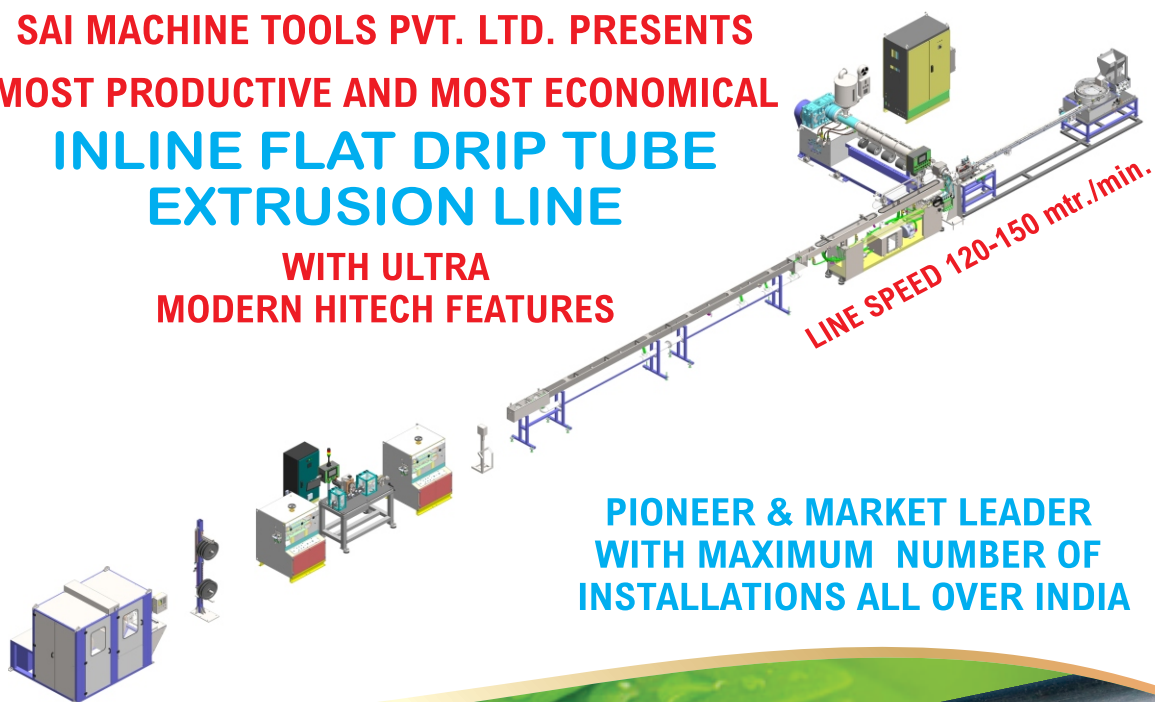
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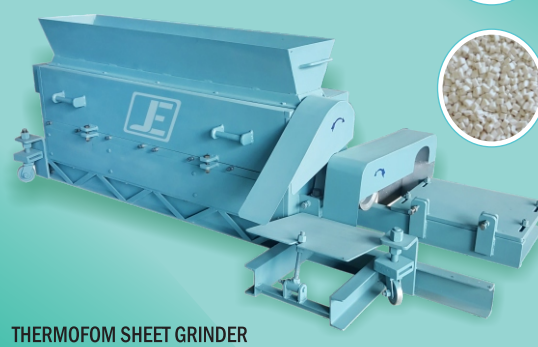
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Manufacturing Nylon -6, Nylon-66, PP, ABS, PC, POM, For Automobiles, Textile, Electrical, Power Tools, Housing & Furniture Parts.

**Supplier of Twin Screw Extruder & it's auxiliary equipment**

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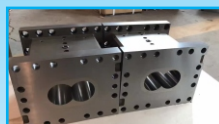
**Polymers :-** Nylon- 6, Nylon-66, Polycarbonate ( PC), POM, PP, ABS

### ► Compounds

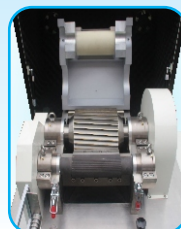
Colouring, Glass Fiber Reinforcing, Flame Retardant, Antiwear Graphite Filled & MoS<sub>2</sub>, Heat Stabilization, Other Tailor Made Compound As per Customer Requirement

### **Suitable Applications :-**

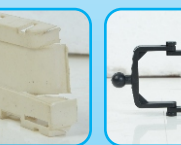
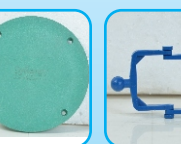
- Automobiles, Textile Industries Spares, Electricals, Power Tools Housing, Furniture,



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- Nylon -6 Castor wheels with self lubrication
- Long Life Gear & Pulley
- Use In Textile Industries with excellent surface finish
- MoS<sub>2</sub> for Self Lubrication & Improved wear
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Kamal Shah

## Continuous Fiber Reinforced Thermo-plastic- CF RTP

The Author is Ahmedabad based consultant assisting to set up new projects.

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**The penetration of plastic is at many levels and for many applications, we suggest add one more solid replacement to steel made from plastics.**

Steel sheets and their corrugation is not only costly material but is costly to produce as well. Right from the heavy containers, to the steel truck bodies and many more steel made containers and shelters for hundreds of applications have an answer not which is cheaper, lighter and easy-to-handle, made from Plastics.

Specifically continuous glass fiber and plastics like PP/HDPE/PA6 (PET) are combined together as a sheet.

With or without honeycomb cores according to different applications. The thickness can be tailored for specific needs. The maximum width is up to 3 meters and the length could be customized.

- Completely recyclable
- Lightweight
- High strength
- Flame retardant
- Cost-effective
- Excellent chemical and corrosion resistance
- Consistent physical properties throughout the entire panel
- Higher energy absorption performance than thermoset

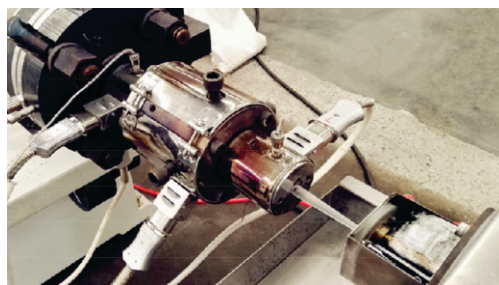
Can be made with Glass fibers, Basalt fibers, Carbon Fibers and Bamboo fibers

The Process is:

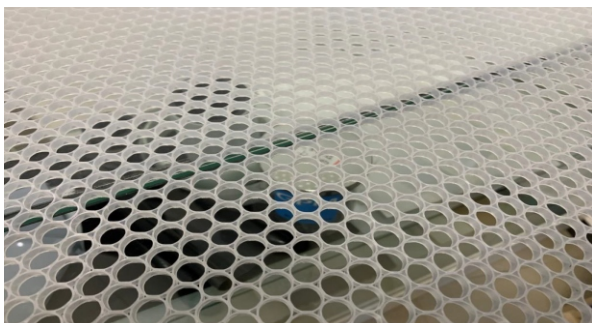
1) TO make sheet from Fibers.



2) Make core tubes PP + EVA Co-Extruded.

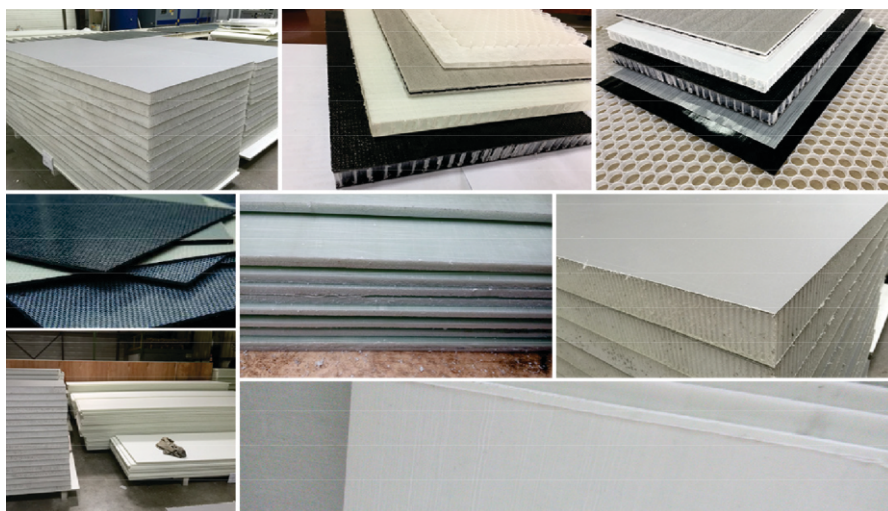


- 3) Tubes to join together, EVA assists as glue when heated, like hot melt glue.



- 4) Hot wire slicing machine to cut and make Honeycomb.

- 5) Thermoplastic Honeycomb panel lamination machine to make Composite sheets of Fibber Sheets at top and bottom and PP+EVA honeycomb as center.



Such made Composite sheets are best replacement to the steel sheet-made all the following.

- Storage containers
- Portable storage containers
- Refrigerated Container
- Combined Container House
- Prefabricated Office Container
- Portable House
- Prefabricated Container House
- Toilet and bathroom containers / Portable toilets
- Cargo Shipping Containers
- Customized Shipping containers
- Modular office containers
- Prefabricated and customized office containers
- Training institutes in containers
- Bunker bed containers
- Portable exhibition stall containers
- Site office cabins
- Portable on vehicle shop
- Security Hut Containers
- Sanitary Containers



The investment in for the machinery can be at Rs. 18.5 Cr landed and so is a business where much of competition is not expected. This is the freshest NEW project for INDIA worth going in for and much of export potential exists.



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## EXHIBITION DETAIL

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IPLEX-2019

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23 TO 25 AUGUST - 2019

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MUMBAI

16TH TO 20TH JANUARY-2020



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**continued from last Edition**

can also develop from a part that is cast from a mold with two halves that are not correctly aligned.

**Remedies:**

1. Locate the gate at the thickest part of the molding.
2. Switch to a less viscous plastic. This will ensure that less gas is trapped as air is able to escape more rapidly.
3. Increase holding pressure as well as holding time.
4. Ensure that mold parts are perfectly aligned.

**Surface Delamination**

**Description:** Surface delamination is a condition where thin surface layers appear on the part due to a contaminant material. These layers appear like coatings and can usually be peeled off (i.e. “delaminate”).



**Causes:** Foreign materials that find their way into the molten plastic separate from the finished product because the contaminant and the plastic cannot bond. The fact that they cannot bond not only has an effect on the appearance of the prototype, but also on its strength. The contaminant acts as a localized fault trapped within the plastic. An over-dependence on mold release agents can also cause delamination.

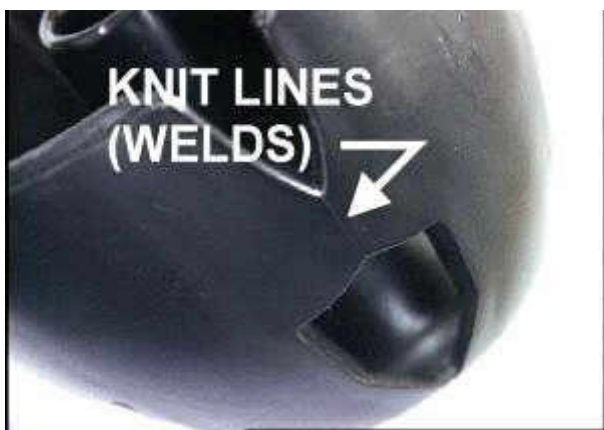
**Remedies:**

1. Pre-dry the plastic properly before molding.
2. Increase the mold temperature.

3. Smooth out the corners and sharp turns in the mold design to avoid sudden changes in melt flow.
4. Focus more on the ejection mechanism in the mold design to reduce or eliminate the dependence on mold release agents.

### Weld Lines

**Description** : Weld lines are actually more like a plane than a line that appears in a part where molten plastics meet each other as they flow from two different parts of the mold.



**Causes:** Weld lines are caused by the inadequate bonding of two or more flow fronts when there is partial solidification of the molten plastic.

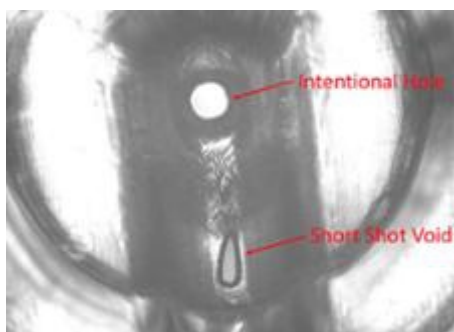
#### Remedies:

1. Raise the temperature of the mold or molten plastic.
2. Increase the injection speed.
3. Adjust the design for the flow pattern to be a single source flow.
4. Switch to a less viscous plastic or one with a lower melting temperature

### Short Shot

**Description:** As the term implies, short shots can be described as a situation where a molding shot falls short. This means that the molten plastic for some reason does not fully occupy the mold cavity or cavities, resulting in a portion where there is no plastic. The finished product becomes deficient because it is incomplete.





**Causes:** Short shots can be caused by a number of things. Incorrect calibration of the shot or plasticizing capacities can result in the plastic material being inadequate to fill the cavities. If the plastic is too viscous, it may solidify before fully occupying all the cavities and result in a short shot. Inadequate degassing or gas venting techniques can also result in short shots because air is trapped and has no way to escape; plastic material cannot occupy the space that air or gas is already occupying.

#### Remedies:

1. Select a less viscous plastic with higher flowability. This plastic will fill the hardest -to-reach cavities.
2. Increase mold or melt temperature so as to increase flowability.
3. Account for gas generation by designing the mold so that gas is not trapped within the mold and is properly vented.
4. Increase the material feed in the molding machine or switch to a machine that has a higher material feed in the event that the maximum material feed has been reached.

#### Warping

**Description:** Warping (or warpage) is the deformation that occurs when there is uneven shrinkage in the different parts of the molded component. The result is a twisted, uneven, or bent shape where one was not intended.

To be continued in next edition

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## અનેક સમસ્યા વચ્ચે પીસાઈ રહેલે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝ

પ્લાસ્ટીક પ્રોડક્ટ્સ માટે ભારત વિશ્વમાં ઘણા ક્રમાંક 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 પરીસ્થિતી 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 શો.



## With Best Compliment PLASTIC PROCESSORS (GUJ.) ASSOCIATION VADODARA

### MESSAGE FROM PLASTIC PROCESSORS (GUJ) ASSOCIATION, VADODARA.

#### REPROCESS ---RECYCLE -- RE USE.



JAYAKANT NANAVATI  
President (Vadodra)

Plastic is safe, light weight, Hygienic & cost efficient material especially for packaging of Foods and Food Products in the world. Plastic replaces metals, Glass, Papers etc. and also helps to save Environment.

If we have to use paper as an alternate then we need water to grow trees and then we have to cut it and then we can make paper. In manufacturing of paper industries, they need gallons of water for production. While plastic industries did not need water for production. So, it helps to save lot of water for human life & animal's life.

Do we know Why plastic are good for health? Most of Health products are Made from plastic like packing of medicines, packing of tablets, liquid medicine, glucose bottle, Plastic blood bag etc. for medical. It is also rust proof, germs proof, easy to handle and easy to transport. Plastic carry bags are 100 % recyclable and it can recycle again & again more than 70 times. While paper is even not Eco friendly and it can process only 4-5 times.



#### 'Plastic industry to grow at 20% in GST regime'

Business Bureau

PLASTIC industry which has been beating the +10% downward trend with an annual growth rate of 15 per cent across the country is expected to accelerate to a growth rate of 20 per cent, say players in the sector. The industry is betting high on the domestic market with the implementation of the new Goods and Services Tax (GST) to boost growth.

"For about 10 years, the plastic industry in India is growing at about 15 percent CAGR. With the implementation of GST, it could grow at 20 per cent," said Vishal Agrawal, President of The Vidarbha Plastic Industries

acting with media persons. The industry is betting high on the lower per capita use of plastic in India compared to the developed world. About 95 per cent produce of the Rs 1 lakh crore Indian plastic industry is consumed within the country, while exports are to the tune of Rs 4,000 crore. While the industry bets high on GST implementation, it wants all plastic products to fall under one tax slab. At present, the average tax burden on plastic is about 22 per cent and GST implementation would certainly lower the burden, players feel.

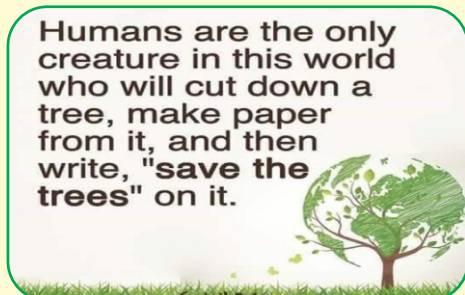
"Manufacturers think that this is positive situation to increase sale of plastic products by improve quality, enhance our production capacity and try new technologies," said Agrawal. Hence, VPPIA is also taking delegation of 22 members for world's largest international plastic trade fair 'K-2016' at Dusseldorf.



Vishal Agrawal



We are living in an ever changing world where technology is ever evolving and it is an enabler in our business and lives making us efficient and sustainable. However that also brings new changes in plastic industries. And one thing is sure that there is no alternate of plastics. So why we think to ban it. When world will find any better solution for replacing of plastic then we can accept it otherwise it is not possible to ban. After so many researches Scientists from all over the world are also recommends plastic material for packaging and that's why major developed countries of a world like USA, CHINA ,FRANCE, RUSSIA, JAPAN, SWITZERL AND, U.K. are using plastic bags & plastic product widely for better Environment.



We must have to create public awareness and also have to change mind. If we want to become world leader, then have to develop small scale Industries which will give more & more employment to the people of India. Banning is not a solution but how to use the plastic waste is more important. We can use plastic waste in so many projects like **Road making, Diesel manufacturing, concealed pipes, Garden Benches & Many more products for better quality and better strength.**

Thanks.

President  
PLASTIC PROCESSORS (GUJ.) ASSOCIATION, VADODARA.

**JAYAKANTBHAI NANAVATI**

**POLYMER BAZAAR****Price | Prediction | Profit***The Single Platform For Polymer's News & Business*E-mail: info@polymerbazaar.com, [www.polymerbazaar.com](http://www.polymerbazaar.com)

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**DAILY POLYMER RATE REPORT 11<sup>TH</sup> FEBRUARY 2019**

Latest Feedstock offers:				Unit:\$/mt
Sr. No.	Product	Today	Friday	Difference
1	Naphtha (C&F Japan)	\$510	\$520	-\$10
2	Propylene (CFR China)	\$955	\$910	\$45
3	Ethylene (CFR NEA)	\$1,090	\$1,080	\$10
4	Styrene (FOB China)	\$1,090	\$1,040	\$50

**Polymer Price Revision wef 9/2/19 :**

✓ GPPS: Up by Rs. 2/kg

✓ HIPS: Up by Rs. 2/kg

**Polymer Price Revision wef 7/2/19 :****► Haldia Petrochemical**

✓ PP / HDPE: No change

✓ LLDPE Film (Prime &amp; Non Prime): Up by Rs 0.5/kg

✓ Other LLDPE : No Change

**► IOCL**

✓ PP : No change

✓ HDPE : No change

✓ LLDPE: Up by Rs 0.5/kg in 1 MFI LL Film grades , 2 MFI LL Film grades &amp; LL Drip Lateral Grade

✓ Other LL : No Change

**Crude Oil Scenario:**

Today Crude Oil prices fell by more than 1 percent as US drilling activity picked up and as a refinery fire in the US state of Illinois resulted in the shutdown of a large crude distillation unit.

Preventing crude prices from falling much further have been US sanctions on Venezuela, targeting its state-owned oil firm PDVSA.

As per POLYMERBAZAAR, Brent crude oil futures were down 71 cents, or 1.1 percent, at \$61.39 a barrel, while WTI crude futures were at \$51.92 per barrel at 0144 GMT, down 80 cents, or 1.5 percent, from their last settlement.

OPEC and its allies will meet on April 17-18 in Vienna to review the pact. Companies added 7 oil rigs in the week to Feb. 8, bringing the total count to 854, pointing to a further rise in US crude production, which already stands at a record 11.9 million bpd.

**Latest International Polymer offers For Indian market: (USD/mt.)**

Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	Last week Report \$/t
	\$	From	-	\$	To	-
Poly Propylene:P.P	\$	1080	To	\$	1090	Stable
Raffia (Homo Polymer)	\$	1085	To	\$	1095	Stable
Injection moulding , (Homo polymer, 11 M.F.I.)	\$	1100	To	\$	1110	Stable
Film (Tubular quenched Q.), (Homo polymer)	\$	1110	To	\$	1120	Stable
B.O.P.P.	\$	1110	To	\$	1120	Stable



## POLYMER BAZAAR

Price | Prediction | Profit

Impact CoPolymer (I.C.P or P.P.C.P.)	\$	1130	To	\$	1140	Stable	N/c
Random CoPolymer ,(R.C.P.)	\$	1150	To	\$	1160	Stable	N/c
<u>Grade (Application)</u>	<u>CIF Nhava Sheva:(\$ /mt)</u>				<u>Trend</u>	<u>Last week</u>	
High Density Poly Ethylene: H.D.P.E.	\$	<u>From</u>	-	\$	<u>To</u>	-	<u>Report \$/t</u>
Raffia	\$	1050	To	\$	1060	Up	( + 10 )
Injection moulding ( 18 M.F.I.)	\$	1010	To	\$	1020	Up	( + 10 )
Blow moulding	\$	1055	To	\$	1065	Stable	N/c
HM Pipe (P.E-80 )	\$	1070	To	\$	1080	Stable	N/c
HM Film	\$	1060	To	\$	1070	Stable	N/c
HM Blow	\$	1075	To	\$	1085	Stable	N/c
<u>Grade (Application)</u>	<u>CIF Nhava Sheva:(\$ /mt)</u>				<u>Trend</u>	<u>Last week</u>	
Linear Low Density Poly Ethylene:L.L.D.P.E.	\$	<u>From</u>	-	\$	<u>To</u>	-	<u>Report \$/t</u>
Film (1 , M.F.I.)	\$	1010	To	\$	1020	Stable	N/c
Roto moulding	\$	1020	To	\$	1030	Stable	N/c
Injection moulding (High M.F.I.)	\$	1120	To	\$	1130	Stable	N/c
Lamination	\$	1040	To	\$	1050	Stable	N/c
<u>Grade (Application)</u>	<u>CIF Nhava Sheva:(\$ /mt)</u>				<u>Trend</u>	<u>Last week</u>	
Low Density Poly Ethylene:L.D.P.E.	\$	<u>From</u>	-	\$	<u>To</u>	-	<u>Report \$/t</u>
General Purpose / Film grade	\$	1030	to	\$	1040	Stable	N/c
Heavy Duty	\$	1040	to	\$	1050	Stable	N/c
Lamination / Extrusion	\$	1150	to	\$	1160	Stable	N/c
Injection Moulding	\$	1055	to	\$	1065	Stable	N/c
Milk Pouch	\$	1075	to	\$	1085	Stable	N/c
<u>Grade (Application)</u>	<u>CIF Nhava Sheva:(\$ /mt)</u>				<u>Trend</u>	<u>Last week</u>	
Poly Vinyl Chloride :P.V.C.	\$	<u>From</u>	-	\$	<u>To</u>	-	<u>Report \$/t</u>
Suspension (Pipe / Extrusion) , " K' Value 67	\$	960	to	\$	970	Stable	N/c
Injection Moulding,"K" Value 57	\$	980	to	\$	990	Stable	N/c
<u>Grade (Application)</u>	<u>CIF Nhava Sheva:(\$ /mt)</u>				<u>Trend</u>	<u>Last week</u>	
Poly Styrene:P.S.	\$	<u>From</u>	-	\$	<u>To</u>	-	<u>Report \$/t</u>
GPPS	\$	1380	to	\$	1390	Down	N/c
HIPS	\$	1480	to	\$	1490	Stable	N/c
<u>Grade (Application)</u>	<u>CIF Nhava Sheva:(\$ /mt)</u>				<u>Trend</u>	<u>Last week</u>	
A.B.S (Acrylonitrile Butadiene Styrene)	\$	<u>From</u>	-	\$	<u>To</u>	-	<u>Report \$/t</u>
ABS	\$	1560	to	\$	1570	Up	N/c
<u>Grade (Application)</u>	<u>CIF Nhava Sheva:(\$ /mt)</u>				<u>Trend</u>	<u>Last week</u>	
E.V.A 18 %	\$	<u>From</u>	-	\$	<u>To</u>	-	<u>Report \$/t</u>
E.V.A 18 %	\$	1470	to	\$	1480	Stable	N/c
<u>Grade (Application)</u>	<u>CIF Nhava Sheva:(\$ /mt)</u>				<u>Trend</u>	<u>Last week</u>	
P.E.T.	\$	<u>From</u>	-	\$	<u>To</u>	-	<u>Report \$/t</u>
P.E.T.	\$	1145	to	\$	1155	Stable	( + 10 )





## POLYMER BAZAAR

Price | Prediction | Profit

Note:

- 1.) Care has been taken for Polymer rate & accuracy part is concerned. This rate gives a general idea & overview of International Rate of diff. polymers. There are chances of having rate difference depending upon Qty., Port, Make, Origin & Payment terms.
- 2.) Data given here above has been collected from reliable sources & published in good faith only. We don't take any responsibility for the decision taken basis on any part of this report.

### International Polymer offers for India (CIF Nhava Seva-\$/MT): February'19

#### ► SABIC:

##### PP

- ✓ Inj. Molding/Raffia: \$ 1100
- ✓ Film: \$ 1130
- ✓ Fibre: \$ 1140
- ✓ ICP: \$ 1210
- ✓ Random CoPolymer: \$ 1290

##### HDPE

- ✓ Film: \$ 1100
- ✓ Blow Molding: \$ 1090

#### ► ORPIC:

- ✓ PP
- Film: \$ 1100
- Raff./Inj. Mldg.: \$ 1070
- BOPP / Fibre: \$ 1090

##### LDPE

- ✓ Film : \$ 1070
- ✓ Heavy Duty : \$ 1119
- ✓ Milk Pouch : \$ 1100

##### LLDPE

- ✓ Film: \$ 1040
- ✓ Inj. Molding: \$ 1110

#### ► S.Arabian refiner

- ✓ PP
- Fiber: \$ 1150
- Inj. Mldg. / Raffia: \$ 1120
- ✓ HDPE
- Pipe Black: \$ 1170
- HM Film/Blow Mldg.: 1110
- ✓ LDPE Film: \$ 1070

### International PVC offers for India (CIF Nhava Seva-\$/MT): February'19

#### ► Formosa Plastic

- Grade: S60/ S65/ S65D/S70R : \$ 950/mt
- Grade: B57 : \$ 960/mt

#### ► LG Chemical

- Grade: LS100E : \$ 940/mt
- Grade: LS100H : \$ 950/mt

#### ► Zhongtai Chemical,

- ✓ Grade: SG 5 @ \$ 855/mt + A.D.D. of 123 USD/mt

#### ► HANWHA

- Grade: Suspension at \$ 940/mt

#### ► TIANYE

- Grade: SG 5@Price:\$ 848/mt + ADD of 91.27 \$/mt



### Today's Indian Domestic Polymer Price:

(Rs/Kg,Excl.GST)

Poly Propylene	Availability	Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
H030SG (Raffia)	Available	89.75	88.75	89.75	90.50	90.75	90.75	90.00
H350FG (Lamination)	Available	90.75	89.25	91.25	91.75	92.25	91.25	92.00
H100EY (Film)	Available	89.75	89.00	90.00	91.00	91.00	90.75	91.50
H110MAS (Inj. Mldg)	Available	88.25	87.25	88.75	89.25	90.00	89.25	89.50
MI3530 (CP-Inj.mldg)	Available	93.25	91.75	93.75	94.50	94.75	93.75	95.25
RCP SRM 100 NC	Available	94.25	93.25	95.25	96.00	95.75	95.25	95.25
RCP SRN 20 NC	Available	94.00	93.00	94.75	95.75	96.00	94.00	95.00



# POLYMER BAZAAR

Price | Prediction | Profit

H050 MN	Available	90.50	89.00	90.50	91.50	92.50	91.00	91.75
<u>IOCL - PP</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
H1110 MG	Available	87.50	86.00	89.00	88.75	88.75	88.00	88.50
PP IM-HMEL M 12 RR	Available	88.00	86.50	89.25	89.00	89.25	88.50	90.75
PP Film	Available	89.00	88.00	90.00	90.50	90.75	90.00	90.00
<u>H.D.P.E. Raffia</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
E 52009	Available	87.50	86.00	87.00	88.75	89.25	87.50	88.50
W 50A009 / W 52	Available	86.75	85.75	85.25	88.50	89.00	87.25	87.00
T 9	Available	86.50	85.00	84.75	87.75	88.25	86.50	86.25
<u>H.D.P.E. Inj. Mldg</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
50 MA 180	Available	85.50	84.50	85.50	87.50	86.75	86.00	86.50
M 5018L	Available	86.00	85.00	86.00	87.75	87.50	86.50	85.50
I 56 A 200	Available	85.75	84.25	85.25	86.75	86.75	85.50	85.75
180M50 ( IOCL)	Available	85.75	84.25	85.25	86.75	86.75	85.50	85.75
<u>H.D.P.E. H.M.(Film)</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
003DF49 (IOCL)	Available	84.50	83.50	83.75	86.25	85.50	85.00	84.75
F 5400	Available	86.00	85.00	85.25	87.75	87.50	86.50	85.75
GAIL 55 (F55HM)	Available	85.75	84.75	84.75	87.25	86.75	86.25	85.75
OPaL	Available	85.00	84.00	84.25	86.50	87.00	85.50	85.75
<u>H.D.P.E. BLOW</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
B52	Available	86.00	85.00	85.75	86.50	88.00	87.00	86.75
012DB54 (IOCL)	Available	85.75	85.00	86.50	86.50	88.00	87.00	87.00
B 6401	Available	86.50	85.50	86.50	87.50	88.50	87.50	86.00
B56003/54GB	Available	86.75	85.75	87.75	87.75	88.75	87.75	86.50
<u>LLDPE FILM</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
LL F19010	Available	80.00	79.00	79.25	81.50	82.00	80.00	80.75
GAIL Pata 2	Available	78.50	77.50	78.00	80.25	80.50	78.50	78.50
<u>LLDPE ROTO</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
HPL 73204T	Available	81.00	80.00	80.75	82.75	83.25	81.50	84.00
36RA045	Available	84.00	83.00	83.75	85.75	86.25	84.50	85.25
<u>L.L.D.P.E lamination</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
E24065	Available	90.00	89.00	91.50	92.50	92.75	90.50	90.00
<u>L.D.P.E.</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
24 FS 040	Available	85.50	84.50	86.50	87.25	87.75	86.00	88.00
16 MA 400	Available	92.00	91.00	93.00	94.00	94.25	92.50	94.00
1070 LA 17	Available	98.00	97.00	99.00	100.00	100.50	99.50	100.00
<u>LLDPE INJ.MLDG</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
M26500	Available	87.50	86.50	88.75	89.50	90.00	88.25	88.00
<u>PVC</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
K - 6701	Available	77.50	76.25	77.00	77.75	78.00	77.75	79.50
K - 5701	Available	79.00	78.50	79.25	80.00	80.25	80.00	81.00
Imported Mat.67 (KValue)	Available	76.00	75.00	75.25	76.00	76.50	76.00	75.75



## POLYMER BAZAAR



### Price | Prediction | Profit

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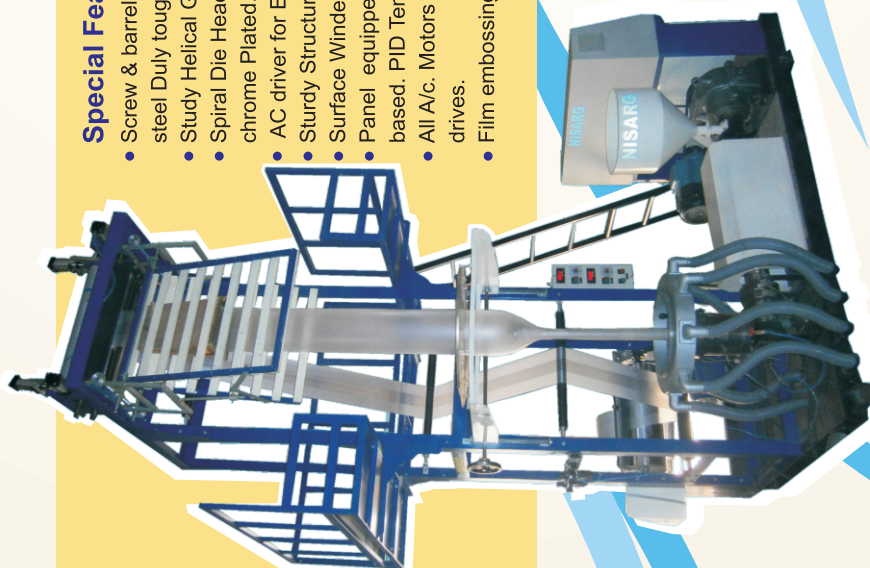
Compact Model, Higher Out Put, Excellent Film Quality

## SPECIFICATION OF HM/HDPE/LDP/LLDP BIO - DEGRADABLE BLOWN FILM EXTRUDER PLANT

### Special Features

- Screw & barrel made from EN-41B Alloy steel Duly toughened & gas nitreated.
- Study Helical Gear box
- Spiral Die Head duly polished and Hard chrome Plated.
- AC driver for Extruder and Take-up.
- Sturdy Structural Construction
- Surface Winder
- Panel equipped with Micro Processor based. PID Temperature controllers.
- All A/c. Motors with A/c. Frequency drives.
- Film embossing (RimZim) arrangement.

Model	Unit	NE-35	NE-40	NE-45	NE-55	Two Layer
Screw Dia	mm	35	40	45	55	35/45
L/D Ratio		27:01	27:01	27:01	30:01	
Nip Roll Size	mm	500	650	800	1065	800
Width of lay flat	mm	450	600	750	1000	750
Main motor	HP	7.5	10	15	25	7.5 & 15
Take up motor	HP	1	1	1	1	1
Out put max	kg./hr	30	42	55	80	80
Gear box		Helical	Helical	Helical	Helical	Helical
Die head		Spiral	Spiral	Spiral	Spiral	Spiral
Die lip size HM	mm	HM-50	HM-65	HM-65	HM-65	HM-100
Die lip size LD	mm	LD-75	LD-125	LD-150	LD-225	LD-150
Air cooling ring		Single lip	Single lip	Single lip	Single lip	Single lip
Filter		Candle	Candle	Candle	Candle	Candle
Winder		Surface	Surface	Surface	Surface	Surface
Winder motor	HP	0.5	0.5	1	1	1.5
Air blower	HP	1	2	3	3	3
Space reqd	feet	8X7X10	9X8X11	10X9X13	12X10X14	15X12X14
Heating zone		5+1	5+1	5+1	6+1	12+2
Connecting total load	HP	25	30	35	45	53



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**PLASTIC ARE SAFE  
& HYGIENIC MEDIUM FOR  
PACKAGING FOOD &  
FOOD PRODUCT**



Plastic, metals Paper.....

Can be Recycled into useful products.

Waste Food and other  
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Can be Composted into  
manure.

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AVOID PLASTIC ENTERING IN TO ANIMAL BODY**

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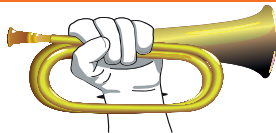
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**STAR LOOM** **SERVO 61** **SERVO 62** **SERVO 63**



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2. WE HAVE INCORPORATED THE IDLER WHEEL FORM OF SHUTTLE REQUIRING NO LUBRICATION, HENCE, IT IS ENVIRONMENT FRIENDLY.
3. AUTOMATIC WARP TENSION CONTROL SYSTEM IS PROVIDED FOR MANUFACTURING BETTER QUALITY OF FABRIC.
4. WE HAVE ADOPTED A FLAT CAM STRUCTURE WITH HIGH OUTPUT, HIGH EFFICIENCY, LOWER ELECTRICAL CONSUMPTION & LOW MAINTENANCE.
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AVAILABLE WIDTH :  
1000mm UP TO 6000mm

PRODUCTION RANGE :  
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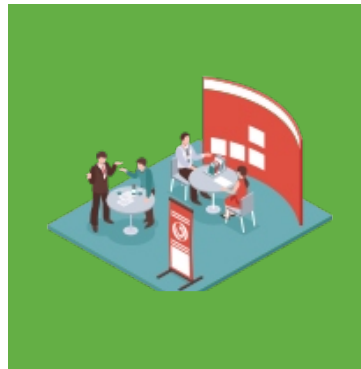
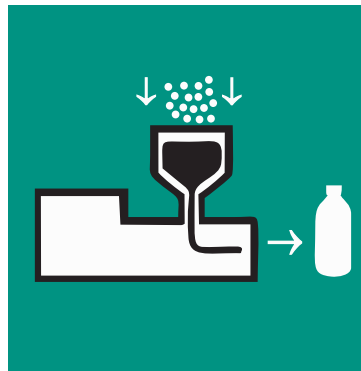
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