



Plastic Tomorrow

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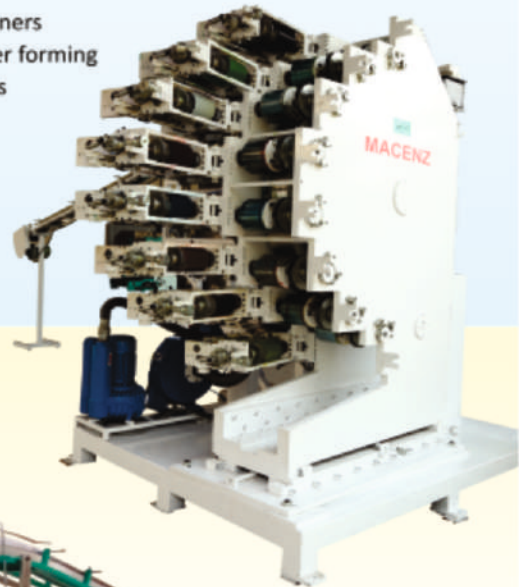
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FR Compounds, PBT, PES & More
Master Batches
Bio degradable
Filler compounds
Elastomers TPU

Toner Compounds

Dual & Mono

Human Food

Expandable foods
Wheat, Rice, maize
Millet & Pulses
Chocos & Cereals

Pharmaceuticals

Hot Melt
Medicines

Fish & Pet food

Pellets
Brine shrimp
Floating pellets

Crucibles

Catalysts

FEATURES

Lab Cap : 1-10 Kg/hr
Production line : Upto 1000 Kg / hr
Screw : Hi Do-DI Volume ratio
Dosing : Loss in Weight Feeders (Gravimetric)
Gear Box : Robust Gearbox Cap 110 Nm - 2100 Nm
Scre Rpm : 300 - 800
Moc : AISI Tool Grade steel W5

Side Feeder : Twin Screw Feeders for Glass fibre & Minerals
Overload Safety : Torque limiter Quick release coupling
Pellatization : Dry Strand, under water, Water ring, Air Ring Pelletisers
Controls : Touch screen Human Machine interface,
PLC & Data Recordings
Barrel : Segmented, Liquid cool & Electric Cast Heating

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Cosmo Films to showcase speciality printing substrates at Print China'19



Cosmo Films, a global leader in films for flexible packaging, lamination and labeling applications as well as synthetic paper would be showcasing its speciality range of printing substrates at the upcoming International Printing Technology Exhibition of China also known as Print China scheduled to take place from April 9-13th in Dongguan city, Guangdong Province, China.

The products on display would include new versions of synthetic paper namely high tear resistance paper & both sides coated paper along with premium lamination films, pressure sensitive label films and speciality packaging films. Let's look at the product portfolio in greater detail.

Synthetic Paper:

It is a co-extruded, white opaque, polypropylene based film which resembles paper in appearance. It is printable with most available printing technologies which include wet & UV offset, wet & UV flexo, letterpress, screen, thermal transfer, select water & powder toner media and HP Indigo technologies. Synthetic paper is a replacement of paper in applications where durability and longevity is desired. It is non-tearable, has moisture & chemical resistance and excellent lay flatness. The versatility of synthetic paper is reflected in the vast number of applications where it can be used. This includes areas such as commercial printing, tags & labels, retail & packaging, identification & credentials and outdoors. The company has also recently launched a new version of the paper with high tear resistance designed specifically for the steel tag application.

Premium Lamination Films:

The premium range of lamination films comprises of velvet, scuff free matte, linen & digital lamination films which have been designed keeping the needs of luxury packaging and high end graphic lamination industries in mind.

Labelstock Films for Self Adhesive Labeling:

These films which go in for label facstock applications are available in transparent, white, matte and metalized varieties (both coated and uncoated options). The films are compatible with UV and water based ink systems and deliver spectacular print performance across wide variety of printing processes which include flexography, gravure, letterpress, offset, screen, thermal transfer and HP Indigo digital. The films also offer high stiffness for conversion and dispensing.

Speciality Films for Packaging:

The films for packaging on display would include barrier films which help with shelf life extension of food products and offers barriers such as moisture, oxygen, aroma and light. The other speciality on display would be heat resistant BOPP films which can replace BOPET film in the printing layer and designed keeping the recycling concerns with heterogeneous structures in mind. Please visit Cosmo Films at stand no. 1-1233 in Hall no. 1.

About Cosmo Films Limited



Established in 1981, Cosmo Films is a global leader in speciality films for packaging, lamination and labeling applications. With engineering of innovative products and sustainability solutions, Cosmo Films over the years has been partnering with world's leading F&B brands, packaging & printing converters to enhance their consumer experience. Company's film offerings include BOPP and CPP films. Today, the company is the largest exporter of BOPP films from India and also the largest producer of thermal lamination films in the world. Its customer base is spread in more than 100 countries with manufacturing units in India, Korea & Japan.

For more information, visit www.cosmofilms.com or write to enquiry@cosmofilms.com.

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ELIX Polymers enjoying success at CHINAPLAS 2019

ELIX Polymers, a leader in specialty ABS-based materials headquartered in Tarragona, Spain, is exhibiting for the first time at CHINAPLAS 2019, as a sister company of Beijing-based Sinochem Plastics. Elix Polymers and Sinochem Plastics both belong to Sinochem International, which has activities across chemicals, metallurgy and energy.

The 33rd edition of this international exhibition for the plastics and rubber industries opened on 21 May at the China Import & Export Complex in Guangzhou. According to the CHINAPLAS organizer, there are more than 3,500 exhibitors at the show, which covers some 250,000m². Over 180,000 visitors are expected to pass through the entrance doors, which close on Friday.

ELIX Polymers has brought over a top team of executives to meet with current and prospective customers at the show. They include CEO David Castañeda, Carlos Müller (Business Director), Toni Prunera (Head of Quality and Business Development), Fabian Herter (Marketing Manager, Automotive & ABS Specialties), and Daniel Engel (Export Manager).

The joint booth of Sinochem Plastics and ELIX Polymers was already bustling on the first day with professional visitors interested in product sourcing and business negotiation. The two companies offer high-quality plastics materials for demanding applications in numerous markets, including electrical & electronics, automotive, aerospace, communications, building & construction, packaging, and beyond. A continuous stream of clients came to talk with business specialists at the meeting area.

ELIX has strength in depth in development and production of ABS-based polymers and compounds, backed up with strong customer service. ELIX is the market leader for ABS Specialty products in Europe and its applications technology know-how extends across such diverse areas as medical treatment, products with antimicrobials, chromium plating, 3D printing and compounding with natural fibers, putting it at the forefront of materials innovation. It is ranked by A.T. Kearney as one of the largest and most successful ABS manufacturers and compounders in Europe.

ELIX Polymers - ELIX Polymers is a leading manufacturer of ABS (Acrylonitrile-Butadiene-Styrene) resins and derivatives in Europe.

Operating from its head office in Tarragona, Spain, and with Sales support teams in all key markets, the company is a specialist provider of tailor-made solutions for high quality thermoplastics applications. With a 40-year track record, ELIX Polymers is an expert in ABS polymers, and it has the resources, the expertise and the experience to create value for its customers through highly individual solutions.

ELIX Polymers offers a broad range of material solutions for a variety of industries and applications, meeting the



stringent requirements of the Healthcare, Automotive, Appliances, Electronic, Toys and other industries. For more information please visit www.elix-polymers.com. As per corporate identity, ELIX is written in capitals. Would you be so kind as to use this way of writing when publishing this story? Many thanks.



From left to right: Daniel Engel: ELIX's Export Manager, Carlos Müller: ELIX's Business Director, David Castañeda: ELIX's CEO, Toni Prunera: ELIX's Head of Quality and Business Development and Fabian Herter: ELIX's Marketing Manager Automotive & ABS Specialties. (Photo: ELIX Polymers, Pr051)



ELIX Polymers enjoying success at CHINAPLAS 2019. (Photo: ELIX Polymers, Pr051)

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PlusONE Iniave – Design for Humanity

This is a great initiative to repurpose non recyclable materials using creative design intent for those in need...

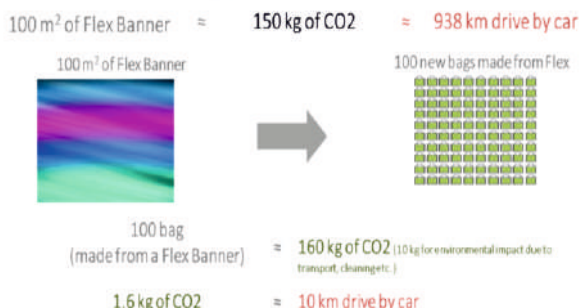
An effort to re-purpose non recyclable materials using creative design intent fthose in need



Today 'Flex Banners' have replaced traditional static mass advertising options. Flex Banners are easy and cheap to print on have great strength, good colour retention properties, and are also waterproof. But the base material PVC (Poly Vinyl Chloride) is impossible to completely recycle. Burning of PVC releases cancer causing gases into the environment leading to severe health hazards Amit did something worthwhile with these banners. The idea came from Amit Inamdar the founder of this start up!



Carbon Footprint of Flex Banners



Source: LCA of Batylone Textile by Ferrari and LCA of EVERGreen Textile

Knowing this, the task of finding a second life for this material started. The first step towards solidifying the idea was to understand and identify capabilities of this material. Next was to apply creative thinking and strategy to design utility products which are not only environmentally friendly and appealing, but also serve a social cause by catering to those most in need.





The Plastics Export Promotion Council

1st Global Conference and Awards, Exhibition on Recycling, Waste Management & Environment on 15th & 16th June 2019 at Vigyan Bhawan, New Delhi.

- 1.Stalls Available
- 2.Advertisement for Recycle Conference Souvenir.
- 3.Sponsorship Welcome.
- 4.Startup Awards Nomination open.

Date - 15th & 16th June Saturday & Sunday

Venue - Vigyan Bhavan



Awards - Awards will be given to Speakers Recycling start up's & Other important Achievers.

SPEAKER

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3 PADMA SHRI AWADEE SPEAKER

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Since the flex material is very durable and available in varied colors, the obvious target audience was children. It is understood that their most prized possession is: books. This proved to be a great starting point by designing bags for school going children from low income families. Further, to involve the socially aware youth in this cause, trendy and stylish utility bags were designed which would enlist their support for this movement. Also, the funds generated by the sale of these bags would help push and accelerate this initiative further.

This year, PlusONE took the next step to help specially-abled individuals to come into the main stream by involving them in our project. PlusONE is training specially-abled individuals to manufacture their products. By selling these products, PlusONE is not only helping them to become financial independent but also socially acceptable



Today PlusONE has more than 40 products on its portfolio, has up-cycled more than 80,000 Kg of discarded flex banner, and along with helping more than 5000 kids in need is generating employment for abled and specially-abled individuals in need. The PlusONE Initiative is giving a new lease on life for a discarded material, while making a colorful impact on society and the planet for a better tomorrow.



This is the Joy !

PlusONE Initiative pools in major part of its profits from sale of up-cycled products to Eco-conscious consumers to create products for those in need. PlusONE has been actively involved in conducting various donation camps to donate school bags in low in private and government schools.

Till date PlusONE has donated more than 1500 bags directly as well as collaborating with various organizations in and around Pune and Mumbai and is all geared up to expand its operations in Chennai.



Compiled by DR SAMEER JOSHI
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Biodegradable Plastic to Revolutionise the Packaging Industry: Ashok Chaturvedi, CMD, Uflex Ltd



Shri Suresh Prabhu, Hon'ble Minister for Commerce and Industries, Govt. of India along with Ashok Chaturvedi, CMD, Uflex Ltd inaugurated the 1st Global Conference on Plastic & Packaging today. The two day conference is the first ever forum for discussion on packaging & plastics being held at Vigyan Bhawan, New Delhi.

Suresh Prabhu addressed the gathering and emphasised on the contribution of Packaging Industry in the global market. He said, "Packaging is the very first impression that a consumer gets about a product before seeing the content of the packet. It will play a key role in creating demand for other products as well"

Ashok Chaturvedi, CMD of Uflex Ltd., who was the Guest of Honor at the Conference, was presented with the Award of 'Father of Flexible Packaging'. Mr. Chaturvedi who spoke on the occasion highlighted the role of Flexible Packaging Industry being the reason for growth of Food Processing industry globally.

Briefing the Hon'ble minister on the burning topic of waste plastic management, Mr. Ashok Chaturvedi, said, "Waste plastic is not an issue as it is made out to be. It may be a waste for one product but it can be recycled and used to make another product. Multilayer packaging is one solution which can be recycled and then reused.

" Uflex is working towards the addressing the issue of waste plastic that does not get collected and ends up in landfill and ocean. Elaborating on this, Mr. Chaturvedi said, "Biodegradable plastic is going to revolutionise the packaging industry and we are in the process of giving a solution to waste plastic, i.e. Biodegradable Plastic. All the manufacturers who are using Multi-layer Packaging to pack any product will be able to use a naturally environment friendly plastic which is eaten by bacteria in coming in



contact with soil. The leftover will be converted into bio-mass and good quality of fertilizers, which will Biodegradable Plastic to Revolutionise the Packaging Industry: **Ashok Chaturvedi, CMD, Uflex Ltd**

further improve the productivity of soil. This will result in cleaning up the city, drainage issues and ocean being polluted with plastic."

Presenting his thoughts on the Trends of Global Flexible Packaging, Mr. Amit Ray, Executive Director, Uflex Ltd. said, "Packaging strikes the very first connect between the brand and consumer, which is correctly defined as the first moment of truth. Delivering a great customer experience is integral to packaging, whether it is a product on the shelf or delivered in a box. Since packaging influences customer perception, creating memorable packaging translates into making a lasting impression. A number of consumer product companies are creating personalised packaging."

He continued, "A number of packaging innovations have the potential to make green packaging the trend of the future. In addition to responsible sourcing of raw material, of late, there are innovations in the field of bio-degradable and recyclable films. Uflex will play an important role in reducing packaging waste as consumers increasingly demand a green and recyclable packaging.

Mr. Jeevaraaj Pillai, Joint President- Packaging & New Product Development, Uflex who presented the company's solution to reduce plastic waste said that the Flexible Packaging Industry has to move in a direction where multi-layer packaging waste can either be collected and recycled; collected and converted into energy; or if it gets littered, then it is bio-degradable

About Uflex:

Uflex is India's largest multinational flexible packaging materials and Solution Company and an emerging global player. Since its inception back in 1985, Uflex has grown from strength to strength to

EXHIBITION DETAIL

PLAST IMAGEN 2019	MEXICO CITY MEXICO	2-5 APRIL 2019
OMAN PLAST 2019	MUSCAT OMAN	15-17 APRIL 2019
CHINAPLAS-2019	GUANGZHOU- CHINA	21-24 MAY-2019
PLASTIC EXPO 2019	INTEX OSAKA	22-24 MAY 2019
PLASTECH EAST 2019	NEW YORK	11-13 JUNE 2019
COMPLAST	MYANMAR (YANGON)	14-16 JUNE 2019
PROPAK CHINA	SHANGHAI, CHINA	19-21 JUNE 2019
PLASTECH 2019	VIETNAM	26-28 JUNE 2019
COMPLAST	KENYA (NAIROBI)	11-13 JULY,2019
COMPLAST	COLOMBO (SRILANKA)	9-11 AUGUST 2019
IPLX-2019	BANGALORE	23-25 AUGUST-2019
K-2019	DUSSELDORF GERMANY	16 TO 23RD OCT-2019
PLASTIVISION-2020	MUMBAI (GOREGAON)	16-20 JANUARY-2020
COMPLAST	JOHANNESBURG (SOUTH AFRICA)	3-5 MARCH 2020
PLASTIVISION ARABIA -2020EXPO	CENTRE-SHARAJ-UAE.	16-19 MARCH-2020
PLAST ASIA-2020	BIEC,BANGALORE	19-22 JUNE-2020
PLAST INDIA-2021	PRAGATI MAIDAN NEW DELHI	4-9 FEB 2021

evolve as a truly Indian Multinational with consumers spread across the world. Uflex today has state-of-the-art packaging facilities at multiple locations in India with installed capacity of around 1,35,000 TPA and has packaging film manufacturing facilities in India, UAE, Mexico Egypt, Poland and USA

All Uflex plants are accredited with ISO 9001, 14001, HACCP & BRC certifications. Uflex caters to markets spanning across the globe in over 140 countries like USA, Canada, South American countries, UK and other European Countries, Russia, South Africa, CIS, Asian and African nations. Integrated within its core business profile are allied businesses like Engineering, Cylinders, Holography and Chemicals which further give Uflex a superior edge above competition.

Uflex Limited is also a part of the D&B Global Database and winner of various prestigious

national and international awards for its products' excellence. Uflex offers technologically superior packaging solutions for a wide variety of products such as snack foods, candy and confectionery, sugar, rice & other cereals, beverages, tea & coffee, dessert mixes, noodles, wheat flour, soaps and detergents, shampoos & conditioners, vegetable oil, spices, marinades & pastes, cheese & dairy products, frozen food, sea food, meat, anti-fog, petfood, pharmaceuticals, contraceptives, garden fertilizers and plant nutrients, motor oil and lubricants, automotive and engineering components etc

Some of Uflex's clients on the global turf include P&G, PepsiCo, Tata Global Beverages, Mondelez, L'Oreal, Britannia, Haldiram's, Amul, Kimberly Clark, Ferrero Rocher, Perfetti, GSK, Nestle, Agrotech Foods, Coca-Cola, Wrigley, Johnson & Johnson amongst others. For more details, click on: www.uflexltd.com

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“Providing Online T-Slots to the existing Platens of Plastic Injection Moulding Machines (without removing the platen)”

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&

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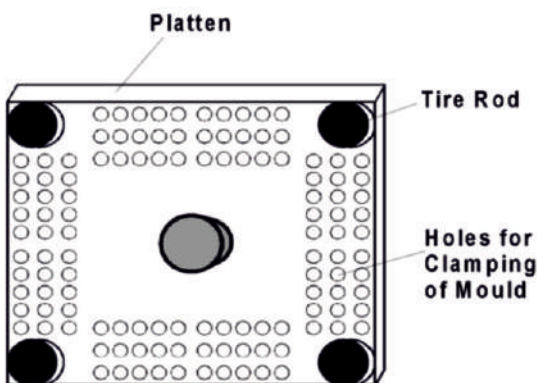
Currently injection moulding machines have Threaded Holes and/or T-slots for mould clamping. Moulders having two options about the machine. Either purchasing the machine ‘with T-slot’ or use the mould clamping holes of the machine provided by the machine manufacturer in case of without T-slot machine.

If someone is interested to make T-slots to the machine, he has to get T-slotted 2 Plates with minimum of 50 mm each in thickness. Mount them on the machine, which decreases the space for Mould height by minimum 100mm. this is the main barrier in this technology as the space for mould height decreases, some of the moulds (some time very crucial moulds) are not able to load on the machine. This is not affordable by the Moulders. As we enter the era of rapidly growing industry in which we have to deliver accuracy with lowest cost. There is also a tremendous cut-throat competition where every small thing (right or wrong) matters a lot and who will know this better else than a Plastic Molder?

There is a dramatic change in the plastic industry in the recent past since the supply became ONLINE. Previously when the production was not online means when it was a part of INVENTORY of the supplier (usually big Giants), molders were getting time for analysis and corrective measures for the suggestions from the supplier. At that time tension was controllable as the frequency of such events was very less . Since when the Zero Inventory concept became a reality, supply became online and all the tension is shifted to molder’s head. If there is any problem in production and the conveyor belt of supplier is stopped for this reason, molder is debited for fine which in case of a small molder may be unbearable. So now molders are required to be very alert and because of which they are also running short of time for the preventive maintenance of the Injection Molding Machines. And maintenance has become only break-down maintenance which is unavoidable.

Today the variety of molds is also increased which results in more mold changes on the machine. There are two types of the existing technology to load or mount the mould on Plastic Injection Moulding Machines without T-Slots.....

Front View of the Platten of the Injection Moulding Machine.



- 1) Loading or mounting the Mould with clamps in the ‘mould clamping holes’ provided by the machine manufacturer.
- 2) Another one is getting T-slotted 2 Plates with minimum of 50 mm each in thickness. Mount them on the machine, which decreases the space for Mould height by minimum 100mm. this is the main barrier in this technology as the space for mould height decreases, some of the moulds (some time very crucial moulds) are not able to load on the machine. This is not affordable by the Moulders.

Generally T-slotted machines are available in higher tonnage.

For average size of machines, Mold Clamping facility is available with Threaded Holes only. As mentioned above, use of these holes has been increased because of frequent mold changes.

"Way of connecting recycle"



PET BOTTLE GRINDER



WOVEN BAG
ROAD WASTE
RAFFIA GRINDER



WOVEN SACK
FABRIC PLANT
WASTE RAFFIA
GRINDER



SINCE 1987



Manufacturer of : All Types of Plastic Scrap Grinder Machines & Agglomerator Machines

402/9, GIDC-2, Dolatpara, JUNAGADH-362 037. Gujarat, India
Contact Person :
Mr. Jayantibhai : +91-285-2660047 / Mr. Hiren Gajjar : +91-9825779447
Mr. Milanbhai : +91-9726375797
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Website : www.scrapgrinders.com

"Way of connecting recycle"



AGGLOMERATOR MACHINE



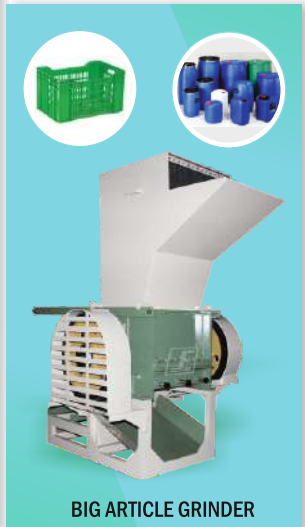
RUBBER TUBE GRINDER



HITTING MIXTURE



ARTICLE GRINDER



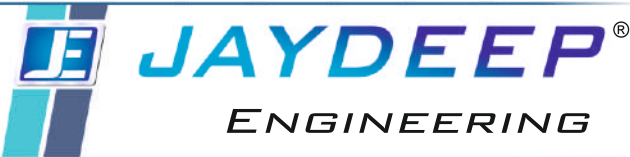
BIG ARTICLE GRINDER

It's mainly use as Inline grinder or form grinder in online plant of XPS Thermoforming.



THERMOFOM SHEET GRINDER

SINCE 1987



Manufacturer of : All Types of Plastic Scrap Grinder Machines & Agglomerator Machines

402/9, GIDC-2, Dolatpara, JUNAGADH-362 037. Gujarat, India
 Contact Person : Mr. Jayantibhai : Tel. +91-285-2660047 / Mr. Hiren Gajjar : +91-9825779447
 Mr. Milanbhai : +91-9726375797 Email : jaydeep@scrapgrinders.com

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There are some points related to this:

1) 'SAFETY FIRST' :

It is the basic need of any organization. It is also emphasised by ISO, KAIZEN, 5-S systems etc. If the threading of the mould clamping holes is not in a good condition, it becomes UNSAFE for the operator as the mould can be loosened and shifted from its original position in running condition and may cause to an ACCIDENT. Nobody likes accident as it results into Serious Injuries, Hospitalisation, Compensation,

Time-loss, Production-loss, Monetary-loss etc.

2) TIME-LEAKAGE :

When a mould-setter finds problem to load the mould, he tries his level best for loading. When it becomes very difficult to load the mould, he reports to management. There is a huge leakage of time per mould change. Being INDIRECT nature, it is not noticeable.

3) MORAL OF THE EMPLOYEES :

The accident / incident affect the confidence of the employees or workers. They start to play a SAFE GAME than to take initiative in the work. It finally affects the production. On the contrary, if all the holes are OK, they will be happy to work with high Moral and Safe working environment. It is observed that generally it takes 10% more time.

Problems solved by 'Making of Online T-slot' Process:

A new patented process has been developed whereby it is possible to make the T-slots to the existing machines only, which eliminates the mounting or fixing of additional plates. This process maintains the space for mould height.

1) Currently, if someone is interested in getting the 'T-slots' to the existing machine, he has to remove the platen from the machine (it is as good as the dismantling the whole machine) and send it for machining i.e. 'T-slotting'. After getting the platen back, he has to re-assemble the machine. In this case he can't maintain the original or factory settings of the machine because of lack of special infrastructure or facilities required parallel to machine manufacturer.

This process also involves the additional costs such as –

- i) Labour charges for dismantling and re-assembling of machine
- ii) To and fro Cost of transportation of the platens T-Slotting workshop.
- iii) Cost of various Oil seals, packing sets, consumables
- iv) Cost of any additional part of machine damaged in this process
- v) Cost of 'lost production hours' in the process

The process has solved the above problem as it is making the T-slots to the existing machines only, that to without removing the platens from the machine, which eliminates above costs and fear of losing original settings of the machine.

Following are the steps of the process:

- Step – 1 : Mounting and aligning the portable milling machine on the platen of the plastic injection-moulding machine by the specially designed clamps fitted with bolts where the slot is to be made.
- Step – 2 : Cutting the platten material with appropriate diameter (for 16mm, 20 mm or 24mm T-Bolt) of the end-mill cutter up to the required depth.
- Step -3 : Sliding the end-mill cutter after reaching the required depth up to the required length of the slot.
- Step – 4 : 'T' cutting with appropriate diameter of the 'T-Cutter'.
- Step – 5 : Sliding the 'T-Cutter' up to the end of the already made slot by end-mill cutter.
- Step – 6 : 'T-slot' is made at this point and can enter the 'T-bolt' into the newly made 'T-slot'.
- Step – 7 : Making required number of T-slots following steps 1 to 6 to the machine for mould clamping (minimum 4 nos. to Fixed and 4 nos. to Moving Platten.)
- Step – 8 : Mounting the Mould or Die on the machine with 'T-bolts' by using newly made 'T-slots'.

Actual Photos of the Process



1. Patten before Starting the 'T-Slot'



2. Starting the cutting of material of patten with end-mill cutter



3. Cut slot by the end-mill cutter



4. Cutting material with 'T-Cutter'



5. Cutting of 'T-slot' completed



6. Entry of 'T-bolt'



7. 'T-bolt' slide to the center of 'T-slot'



8. 'T-bolt' slide to the end of the 'T-slot'



9. 'T-bolt' with clamp in the newly made 'T-slot'

How can this be cost effective?

Any profit making organization will be keen in saving monetary loss. It is the heart of business because MONEY SAVED IS MONEY EARNED. Let's see how monetary-loss is involved. As per the observation of so many years and after discussing with production department, it is clear that if all the mould clamping holes and the bolts are not in a good condition, you can lose at least 30 mins. Per mould change. Let's take one example:

XYZ Pvt. Ltd.

Basic Information of the Company :

No. of Machines -	25 nos.
Avg. No. of mould changes per day -	10 nos.
Hrs. Lost per day – (with 30 mins.) -	5 Hrs.
Hrs. Lost per year – (for 300 days) -	1,500 Hrs.



The graph shows that the total lost hrs. are 17% of working hrs. This is a countable percentage.

Let's find out Avg. Cost of Production:

Avg. Turn Over -	28 Crs.
No. of Machines -	25 nos.
Avg. Turn Over per machine -	1.12 Crs.
Max. no. of prodn. Hrs. per m/c per year - (24 Hrs. X 300 Days)	7,200 Hrs.
So Avg. Production cost per machine per hour -	Rs.1,556/-
So loss for the year will be -	Rs. 23,34000/-
[Lost Hrs. (1,500) X Rs. 1,556]	



Actually, the loss shown is just 1% in percentage but if we consider the amount, it's huge. It is actually an indirect loss to the company if threading is not got repaired in time. This Loss can be avoided by getting Process done in time. This is how this Treatment is a Cost Cutting Tool for Plastic Industry

Benefits of the Project :

- 1) Its ONLINE (ON THE SPOT) process so you need not to remove the platens from the machine.
- 2) Only requirement is of normal unloading of the mold and MAXIMUM OPENING (Day Light) of the platens.
- 3) A normal electric supply.(Three Phase)
- 4) So it saves the cost of removing and re assembling the platens.
- 5) Saves the cost of consumables, oil seals, packing sets etc. required for above process.
- 6) Saves the Transport Cost of the platens where in-house Milling facility is not available.
- 7) No tension of loosing original settings like parallelism of tie-bars and platens etc.
- 8) Saves time involved in above process. In short saves Production Hours.
- 9) You can start the loading of the mold immediately after the work.
- 10) It's very cost effective compared to above process of removing the platen.

This project is useful to all moulders whose machines don't have T-slots but are willing to have it. This project improves life of machines as they don't have to change the platen or fix the master plates which undesirably decreases the mould height by minimum 100mm (50mm each plate) resulting some moulds not be able to be loaded on the machine.

Other Applications of Process:

- 1) Making the 'slots' to the platens of the Plastic Injection Moulding Machines (it may be 'T-slot' or plain slot).
- 2) Making the 'Slots' to huge metal plates (Horizontally)
- 3) Making the 'Slots' to the shafts of huge diameter
- 4) Making of 'Slots' to any metal roof
- 5) Useful in shipping industry
- 6) Useful in heavy industry

Thus we can conclude that this new concept of Making of Online T-slots would be an effective productivity, monetary option for injection moulding machines.

SABIC THERMOPLASTIC MATERIALS AT FOREFRONT OF AIRCRAFT MANUFACTURING



Airlines are seeking competitive advantages to be gained from the enhanced inflight experience - particularly in the form of increased cabin comfort - both in premium and economy classes. Additionally, airlines are looking to capitalize on product differentiation through strong branding and distinctive interior design. From an operational perspective, the 'light weighting' of aircraft components continues to be an important enabler in allowing airlines to minimize costs and reduce maintenance and refurbishment cycles, while maintaining the highest levels of safety excellence, design flexibility and improved passenger experience. Advanced thermoplastic composites are now an important solution for such applications.

"SABIC is at the vanguard of development of innovative material technologies and manufacturing processes to support the aircraft interiors industry", said Peter Mintjens, Business Development Manager, SABIC. "We have engaged the most forward-thinking and exceptional talent to develop our most advanced and versatile offerings which we will be highlighting at this year's Aircraft Interiors Expo."

At the Aircraft Interiors Expo in Hamburg, April 2-4 2019, SABIC will showcase its comprehensive range of advanced materials to meet the modern-day needs of airlines. These will focus on SABIC's innovative, high-performance thermoplastic offerings as key constituents for novel composite materials, including resin, sheet, film, filament and foam. These thermoplastic solutions enable the production of high strength aircraft regulatory compliant, lightweight parts to aid not only fuel efficiency and component longevity, but to allow greater design freedom. The highly versatile materials are also fully compliant with all stringent international flame, smoke and toxicity regulations.

"SABIC has long played a leading role in creating ground-breaking new materials for a wide range of industries," said Paul DiSciullo, Global Segment Leader, Mass Transportation, SABIC. "As air travel continues along its ever more competitive journey, many customers are seeking design and manufacturing solutions which enable them to not only reduce costs in manufacturing and fuel consumption, but to offer passengers inflight experiences which evoke a more golden age of travel - through more comfort, more luxury, more options for personalization. In addition to their contribution to aircraft safety and performance, SABIC's innovative materials -

including their ULTEM™ thermoplastic resin and foam - are imbued with properties that typically enhance component longevity. The company's ULTEM™ resin and foam have low moisture absorption, preventing mold and fungus growth; chemical resistance to mitigate damage and marking to interior parts; and retention of mechanical characteristics at both elevated and cold temperatures.

SABIC's high performance LEXAN™ LIGHT sheet, the lightest thermoplastic sheet option currently available, typically delivers up to 40 percent in weight savings when replacing traditional polyvinyl chloride and acrylic blend-based sheet products (PVC/PMMA). It may be an excellent candidate for use in a wide range of applications from seating parts, cockpit dashboard enclosures and partitions to luggage compartments and service trolleys and self-service refreshment stations. It also typically offers excellent aesthetic flexibility, available in a variety of long-life textures - from high gloss to suede-like surfaces - and can be supplied in over 250 colors, enabling superb branding options to airline operators.

To learn more about SABIC's innovative materials to advance the passenger flight experience and differentiate your brand, come visit our booth 6C100 where you can meet with some of the leading experts in the field.

END

NOTES TO EDITORS

- SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.
- SABIC should be written in every instance in all uppercase.

ABOUT SABIC

SABIC is a global leader in diversified chemicals headquartered in Riyadh, Saudi Arabia. We manufacture on a global scale in the Americas, Europe, Middle East and Asia Pacific, making distinctly different kinds of products: chemicals, commodity and high performance plastics, agri-nutrients and metals.

We support our customers by identifying and developing opportunities in key end markets such as construction, medical devices, packaging, agri-nutrients, electrical and electronics, transportation and clean energy.

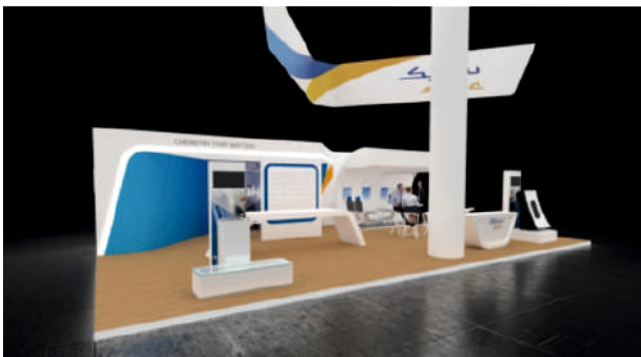
SABIC recorded a net profit of SR 21.54 billion (US\$ 5.74 billion) in 2018. Sales revenues for 2018 totaled SR 169.09 billion (US\$ 45 billion). Total assets stood at SR 320.1 billion (US\$ 85.4 billion) at the end of 2018.

Production in 2017 stood at 71.2 million metric tons. SABIC has more than 34,000 employees worldwide and operates in more than 50 countries. Fostering innovation and a spirit of ingenuity, we have 11,534 global patent filings, and have significant research resources with innovation hubs in five key geographies – USA, Europe, Middle East, South Asia and North Asia.

The Saudi Arabian government owns 70 percent of SABIC shares with the remaining 30 percent publicly traded on the S

audi stock exchange.

PHOTOS AND CAPTIONS



SABIC is featuring a thermoforming tool for an aircraft interior panel, printed on a Thermwood LSAM® machine using LNP™ THERMOCOMP™ AM EC004XXAR1 compound, a material based on ULTEM™ resin with 20 percent carbon fiber reinforcement.



LEXAN™ LIGHT F6L306 SHEET

This sheet product from SABIC offers up to 40% weight savings when replacing traditional PVC/PMMA blend based sheet products.

For more Information
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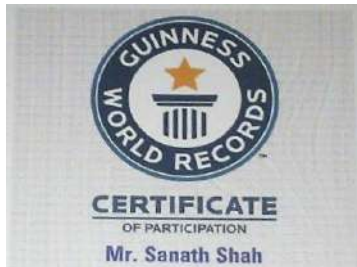
Top-10 Injection Molding Defects & How To Fix Them

Continued from last Edition



Sanat Shah

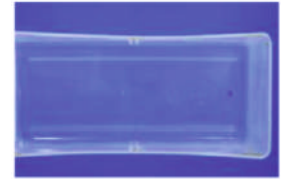
Plastics Project
&
Recycling Consultant



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.



Causes: Warping is usually caused by non-uniform cooling of the mold material. Different cooling rates in different parts of the mold cause the plastic to cool differently and thus create internal stresses. These stresses, when released, lead to warping.

Remedies:

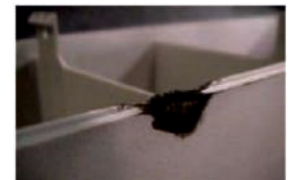
1. Ensure that the cooling time is sufficiently long and that it is slow enough to avoid the development of residual stresses being locked into the part.
2. Design the mold with uniform wall thickness and so that the plastic flows in a single direction.
3. Select plastic materials that are less likely to shrink and deform. Semi-crystalline materials are generally more prone to warping.

Burn Marks

Description :

Burn marks are discolorations, usually rust colored, that appear on the surface of the injection molded prototypes.

Causes: Burn marks are caused either by the degradation of the plastic material due to excessive heating or by injection speeds that are too fast. Burn marks can also be caused by the overheating of trapped air, which etches the surface of the molded part.



Remedies:

1. Reduce injection speeds.
2. Optimize gas venting and degassing.
3. Reduce mold and melt temperatures.

Jetting

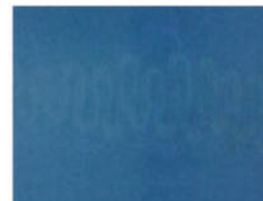
Description:

Jetting refers to a situation where molten plastic fails to stick to the mold surface due to the speed of injection. Being fluid, the molten plastic solidifies in a state that shows the wavy folds of the jet stream on the surface of the injection molded part.

Causes: Jetting occurs mostly when the melt temperature is too low and the viscosity of the molten plastic becomes too high, thereby increasing the resistance of its flow through the mold. When the plastic comes in contact with the mold walls, it is rapidly cooled and the viscosity is increased. The material that flows through behind that viscous plastic pushes the viscous plastic further, leaving scrape marks on the surface of the finished product.

Remedies:

1. Increase mold and melt temperatures.
2. Increase the size of the gate so that the injection speed becomes slower.
3. Optimize gate design to ensure adequate contact between the molten plastic and the mold.



Flash

Description:

Flash is a molding defect that occurs when some molten plastic escapes from the

mold cavity. Typical routes for escape are through the parting line or ejector pin locations. This extrusion cools and remains attached to the finished product.

Causes: Flash can occur when the mold is not clamped together with enough force (a force strong enough to withstand the opposing forces generated by the molten plastic flowing through the mold), which allows the plastic to seep through. The use of molds that have exceeded their lifespan will be worn out and contribute to the possibility of flash. Additionally, excessive injection pressure may force the plastic out through the route of least resistance.

Remedies:

1. Increase the clamp pressure to ensure that the mold parts remain shut during shots.
2. Ensure that the mold is properly maintained and cleaned (or replaced when it has reached the end of its useful lifespan).
3. Adopt optimal molding conditions like injection speed, injection pressure, mold temperature, and proper gas venting.

A large number of the defects mentioned above can be prevented in the design process by incorporating proper tooling design into the iterative process. Using moldflow software, it will help you identify ideal gate locations; anticipate air pockets, flow or weld lines, and vacuum voids. Most importantly, it will help you design solutions to these problems ahead of time, so that when it comes to production you do not have to worry about the defects costing you money.



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PLASTICS RECYCLING



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Plastics cause serious environmental problems. Although they are not intrinsically dangerous, they take up a huge amount of space in landfills and they are made from a non renewable resource, namely fossil fuels. For these reasons it is important that, where possible, plastics are recycled. The recycling of plastics is carried out in a five step process.

Step 1 - Plastics collection

This is done through roadside collections, special recycling bins and directly from industries that use a lot of plastic.

Plastics for recycling come from two main sources: post consumer plastics and post industrial plastics. Post consumer plastics are those which have already been used by people. These are the plastics collected in plastics recycling bins and at domestic roadside collections. Post industrial plastics, on the other hand, are rejects from industry — off cuts, damaged batches etc. These plastics are collected either directly from the industry or collected by the local council, squashed into bales and sold to a recycler.

Step 2 - Manual Sorting

At this stage Metals, Glass, Cloths. Paper and Stones are removed, and the plastic is sorted into three types: PET, HDPE and 'other'. In theory, every type of plastic can be recycled. In practise only codes 1 (PET) and 2 (HDPE) are recycled. The incoming plastic is manually sorted into these two codes and 'other', and the three separate streams sent off to be chipped. It is particularly important that all PVC is removed from the PET stream as the more sophisticated sorting used later on cannot differentiate between these two types of plastic. Any Metals, Glass, Cloths. Paper and Stones etc. that is mixed in with the plastic is also manually removed at this stage.

Step 3 – Shredding / Grinding – Size reduction

The sorted plastic is cut into small pieces ready to be washed & melted down.

Each sorted stream of plastic is then sent separately to a Shredding / Grinding for Size reduction. This is a provided with 8-15 mm screen. The blades cut the material until it is small enough to fall through the screen.

Step 4 – Washing

This stage removes contaminants such as glue, paper, labels, dirt, dust, oil and remnants of the product originally contained in the plastic.

The chips are then washed to remove glue, paper, labels, dirt dust, oil and any remnants of the product they once contained. Both the "other" stream and the PET stream are washed at around 90oC, while the HDPE (which has a much lower melting point) must be washed below 40oC to prevent dis-colouration. The wash solution consists of an alkaline detergent in water, which removes dirt and grease and degrades protein.

During washing the agitator in the wash tank acts as an abrasive, grinding off the glue of the labels and reducing any paper labels to fibres. The plastics are then separated from the glue, paper, dirt etc. in a spinning tower in which this very fine material is forced out through small holes, while the plastic itself remains inside. The plastics are then further rinsed and then (in the PET and HDPE streams) separated on the basis of weight. This is done using a water cyclone which is designed to separate out the given plastic from all the others. In the case of PET, it is heavier than all the others and so 95% of the PET falls to the bottom while the remainder of the PET and everything else rises to the top. Unfortunately, PVC is of about the same weight as PET and so cannot be separated in this step. For this reason it is very important that all the PVC was removed during manual sorting.

The product at this stage can be sold for extruding, but it is only appropriate for extruding through wide extrusion nozzles as it doesn't pack efficiently enough for narrow nozzles, hence most of it is pelleted before sale.

Step 5 – Pelletizing

The plastic is then melted down and extruded into small pellets ready for reuse. Some recycled plastic is then used in applications similar to those for which virgin plastic is used. The remaining plastic is made into a variety of objects such as drainage mats and hard board.

This is done by melting the chips and extruding them out first through a fine grill to remove any solid dirt or metal particles that have made it through the treatment thus far and then through a die of small holes. If the plastic was simply allowed to extrude from these holes it would come out as spaghetti-like strings and quickly tangle together. However, it is sprayed with water as it comes out (to prevent the plastic from sticking together) and cut off by rotating knives to give small, oval pellets.

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 નહી 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 નહી 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, ઈલેક્ટ્રીકલ

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 નાણાકીય હાલત ઘણી નાજુક થઈ ગઈ છે. આ દરમિયાન મજુરોના 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) માયકોન નો કાયદોશુ સમગ્ર વિશ્વના અન્ય દેશોમાં છે તેની ન્યાયીક તપાસ કરાવે તોજ સાચી હકીકત થી સરકાર માહીત ગાર થઈ શક શે.



POLYMER BAZAAR
Price | Prediction | Profit

DAILY POLYMER REPORT : JUNE 1, 2019

Price Prediction for 1st June 2019.

As per reliable source , On account of ongoing trade war between USA & China- both countries are targeting to explore other potential area to retain their export share. Based on population & healthy consumption capacity India is one the most preferred bazaar.

In order to counter huge imports & safe guard domestic producers , Indian govt. is under process of evaluating import duty structure. There are chances that Govt. may redesign import duty with increment. Looking to current scenario local producers may declare below given revision.

✓ PP Homo Polymer / HDPE / LLDPE: May down by Rs.1.5 -2.5 /kg

✓ ICP & RCP : May down by Rs.2-3/kg

✓ LDPE / PS / PET : May down by Rs.2-3/kg

✓ PVC / ABS :Mostly No change

Pl. Note: All applicable discounts schemes & Price Protection will be discontinue.

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

Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	Last week
	\$	From	-	\$	To	Report \$/t
Poly Propylene:P.P						
Raffia (Homo Polymer)	\$	1130	To	\$	1140	Down (- 10)
Injection moulding , (Homo polymer,11 M.F.I.)	\$	1135	To	\$	1145	Down (- 10)
Film (Tubular quench-T.Q.) , (Homo polymer)	\$	1155	To	\$	1165	Down (- 30)
B.O.P.P.	\$	1175	To	\$	1185	Down (- 30)
Impact Co-Polymer (I.C.P or P.P.C.P.)	\$	1190	To	\$	1200	Down (- 30)
Random Co-Polymer ,(R.C.P.)	\$	1210	To	\$	1220	Down (- 30)
Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	Last week
	\$	From	-	\$	To	Report \$/t
High Density Poly Ethylene: H.D.P.E.						
Raffia	\$	1040	To	\$	1050	Down (- 10)
Film	\$	1150	To	\$	1160	Down (- 10)
Blow moulding	\$	1065	To	\$	1075	Down No Change
HM Pipe (P.E.-80)	\$	1060	To	\$	1070	Down No Change
HM Film	\$	1050	To	\$	1060	Down No Change
HM Blow	\$	1065	To	\$	1075	Down No Change
Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	Last week
	\$	From	-	\$	To	Report \$/t
Linear Low Density Poly Ethylene:L.L.D.P.E.						
Film (1 , M.F.I.)	\$	990	To	\$	1000	Down (- 10)
Roto moulding	\$	1000	To	\$	1010	Down (- 10)
Injection moulding (High M.F.I.)	\$	1100	To	\$	1110	Down (- 10)
Lamination	\$	1020	To	\$	1030	Down (- 10)
Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	Last week
	\$	From	-	\$	To	Report \$/t
Low Density Poly Ethylene:L.D.P.E.						
General Purpose / Film grade	\$	1030	to	\$	1040	Down (- 10)
Heavy Duty	\$	1040	to	\$	1050	Down (- 10)
Lamination / Extrusion	\$	1150	to	\$	1160	Down (- 10)

Injection Moulding	\$	1055	to	\$	1065	Down	(- 10)
Milk Pouch	\$	1075	to	\$	1085	Down	(- 10)
Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	Last week	
Poly Vinyl Chloride :P.V.C.	\$	From	-	\$	To	-	Report \$/t
Suspension (Pipe / Extrusion) ," K' Value 67	\$	870	to	\$	880	Stable	No Change
Injection Moulding,"K" Value 57	\$	890	to	\$	900	Stable	No Change
Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	Last week	
Poly Styrene:P.S.	\$	From	-	\$	To	-	Report \$/t
GPPS	\$	1250	to	\$	1260	Down	(- 20)
HIPS	\$	1330	to	\$	1340	Down	(- 20)
Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	Last week	
A.B.S (Acrylonitrile Butadiene Styrene)	\$	From	-	\$	To	-	Report \$/t
ABS	\$	1460	to	\$	1470	Down	No Change

Note:

- .) 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.
- .) 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.



SABIC, S.Arabian refiner, has offered its Polymer for Indian Bazaar: \$/mt

- ✓PP
 - Raffia : \$ 1170
 - Film : \$ 1200
 - Inj. Mldg.: \$ 1180
- ✓HDPE
 - Film: \$ 1090
 - BLOW MLDG.: \$ 1070
- ✓LLDPE Film: \$ 1010
- ✓LDPE
 - Film :\$1090
 - Milk pouch :\$ 1120
 - Heavy duty:\$ 1140

Shipment: End of June-Early July 2019 , CIF Nhava Sheva



S.Arabian refiner has offered its Polymer for Indian Bazaar: \$/mt

- PP**
 - ✓Tape (H1030) : \$ 1170
 - ✓Fiber(H2250) : \$ 1190
 - ✓Inj. Mldg.(H4260M) : \$ 1170
 - ✓BOPP(H3030) : \$ 1190
- HDPE**
 - ✓Blow Mldg (B1258):\$ 1050
 - ✓Film (F0455): 1050
 - ✓Pipe (PE 100 Blue): \$1400
 - ✓NOG :\$ 1000

Shipment: End of June-Early July 2019 , CIF Nhava Sheva

PVC (CIF Nhava sheva , \$/mt)			
Company	K 67	K 57	A.D.D
Formosa	860	870	N.A.
Hanwha	900	-	N.A.
LG Chemical	880	890	N.A.
Tianye	915	-	91.27

Material offers for CIF Nhava Sheva basis for June 2019 delivery

Material: PET (\$/mt)			
Company: Wankai/Crystal	Mumbai	Kolkata	Delhi
Grade: IV 0.80/0.70	950	975	1005
Grade: IV 0.84	960	985	1015

Grade: IV 0.89	1000	1060	1020
Material offers for June 2019 delivery			



Today's Indian Domestic Polymer Price:

(Rs/Kg.-Excl.GST)

Poly Propylene	Availability	Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
H030SG (Raffia)	Available	96.50	95.50	97.50	97.25	97.50	97.50	97.50
H350FG (Lamination)	Available	100.00	98.50	100.50	101.00	101.50	100.50	101.50
H100EY (Film)	Available	97.50	96.75	98.75	98.75	98.75	98.50	99.50
H110MA (Inj. Mldg)	Available	96.50	95.50	98.50	97.50	98.25	97.50	98.00
MI3530 (CP-Inj.mldg)	Available	99.00	97.50	99.50	100.25	100.50	99.50	101.00
RCP SRM 100 NC	Available	101.50	100.50	103.00	103.25	103.00	102.50	103.00
RCP SRN 20 NC	Available	100.50	99.50	101.25	102.25	102.50	100.50	102.25
H050 MN	Available	101.00	99.50	101.00	102.00	102.00	101.50	102.25
IOCL - PP		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
H1110 MG	Available	95.75	94.25	97.25	97.00	97.00	96.25	97.50
PP IM-HMEL M 12 RR	Available	95.25	93.75	96.50	96.25	96.50	95.75	97.00
PP Film	Available	97.00	96.00	98.00	98.50	98.75	98.00	98.00
H.D.P.E. Raffia		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
E 52009	Available	86.25	84.75	85.75	87.50	88.00	86.25	87.25
W 50A009 / W 52	Available	85.50	84.50	84.00	87.25	87.75	86.00	85.75
T 9	Available	85.00	83.50	83.25	86.25	86.75	85.00	84.75
H.D.P.E. Inj. Mldg		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
50 MA 180	Available	80.50	79.50	80.50	82.50	81.75	81.00	81.50
M 5018L	Available	81.00	80.00	81.00	82.75	82.50	81.50	80.50
I 56 A 200	Available	80.75	79.25	80.25	81.75	81.75	80.50	80.75
180M50 (IOCL)	Available	81.00	79.50	80.50	82.00	82.00	80.75	82.75
H.D.P.E. H.M.(Film)		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
003DF49 (IOCL)	Available	81.50	80.50	80.75	83.25	82.50	82.00	81.75
F 5400	Available	82.00	81.00	81.25	83.75	83.50	82.50	81.75
GAIL 55 (F55HM)	Available	81.75	80.75	81.75	83.25	82.75	82.25	82.75
OPaL	Available	81.25	80.25	80.50	82.75	83.25	81.75	82.00
H.D.P.E. BLOW		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
B52	Available	81.00	80.25	81.00	81.75	83.25	82.25	82.00
012DB54 (IOCL)	Available	81.25	80.50	82.00	82.00	83.50	82.50	82.25
B 6401	Available	82.00	81.00	82.00	83.00	84.00	83.00	81.50
B56003/54GB	Available	82.25	81.25	83.25	83.25	84.25	83.25	82.50
LLDPE FILM		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
LL F19010	Shortage	78.50	77.50	77.75	80.00	80.50	78.50	79.50
GAIL Pata 2	Shortage	77.50	76.50	77.00	79.25	79.50	77.50	77.25
LLDPE ROTO		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
HPL 73204T	Shortage	80.50	79.50	80.25	82.25	82.75	81.00	81.50
36RA045	Shortage	82.25	81.25	82.00	84.00	84.50	82.75	83.50
L.L.D.P.E lamination		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
E24065	Shortage	83.25	82.25	84.75	85.75	86.00	83.75	85.50

<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	Shortage	88.00	87.00	89.00	89.75	90.25	88.50	90.50
16 MA 400	Shortage	94.00	93.00	93.00	96.00	96.25	94.50	96.50
1070 LA 17	Shortage	97.00	96.00	98.00	99.00	99.50	98.50	99.00
<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	Shortage	89.50	88.50	90.75	91.50	92.00	90.25	92.00
<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	74.75	74.00	74.75	75.50	75.75	75.50	76.00
K - 5701	Available	76.25	75.75	76.50	77.25	77.50	77.25	77.50
Imported Mat.67 (K-Value)	Available	73.00	72.00	73.50	73.00	73.00	73.00	73.75
<u>Other Material</u>								
<u>LL Film (1 M.F.I)</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
Imported LL	Available	76.50	75.25	76.25	77.25	77.25	76.75	76.00
Imported LL 1018 H	Available	76.00	74.75	75.75	76.75	76.25	76.25	76.25
<u>HM film</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
	Available	81.00	79.50	80.00	82.25	82.75	81.00	82.00
Imported HM	Available	81.25	80.00	80.75	82.75	83.25	81.50	81.75
	Available	80.75	79.00	79.75	81.75	82.25	80.50	80.75
<u>LDPE LAMI. (7 M.F.I.)</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
Titan 801 YY	Shortage	92.00	91.00	91.50	93.00	93.50	92.50	92.75
Hanwa	Shortage	93.00	92.00	92.25	93.00	94.75	93.50	94.25
<u>Engineering Material</u>								
<u>Poly Styrene:P.S.</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
GPPS	Available	101.00	99.50	100.50	102.00	102.75	101.00	102.50
HIPS	Available	105.00	103.00	104.00	105.50	106.25	104.50	106.00
<u>A.B.S</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
920 (Ineos)	Available	115.00	113.00	114.00	115.75	116.25	114.25	115.50
700 Colour ABS	Available	129.00	127.00	128.00	129.75	130.25	128.25	129.00
<u>P E T</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
PET	Available	87.00	86.00	87.00	88.25	88.75	87.50	88.00
<u>Engineering Material</u>		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
Nylon 6 (GSFC)	Most Short supply	205.00	203.75	204.75	206.50	207.00	205.00	206.25
Nylon 6 6 (Solvey)	Most Short supply	340.50	339.25	339.50	342.00	342.50	340.50	341.00
Nylon GF 30% (Domo)	Available	155.00	153.75	154.00	156.50	157.00	155.00	155.50
Delrin	Available	125.00	123.75	125.25	126.50	127.00	125.00	126.75
Plain PBT	Available	124.00	122.75	123.00	125.50	126.00	124.00	124.50

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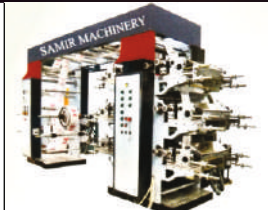
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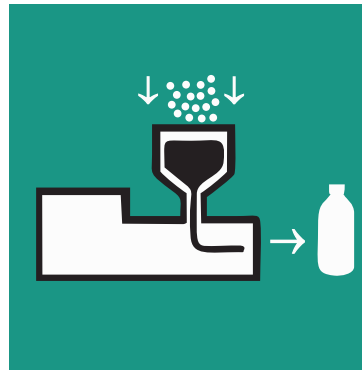
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