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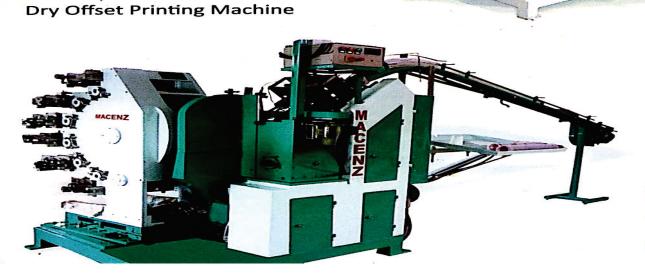
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ASIAN HOUSEWARES MAKERS EMBRACING USE OF UL ECO-LABEL FOR PP PRODUCTS MADE USING MILLIKEN'S MILLAD®NX™ 8000 CLARIFIER



Ghent, Belgium – The energy-saving benefits of Milliken's Millad® NX[™] 8000 clarifier for polypropylene (PP) have long been known and documented. But now downstream customers, particularly in Asia, are realizing the upside of this, and are beginning to leverage this to their manufacturing advantage and the resulting UL **Environmental Claim Validation (ECV) label to** their marketing advantage. Milliken Chemical has collaborated with the China Plastic Housewares Association to help broaden awareness of the energy consumption reductions that can be achieved by using Millad NX 8000 in a transparent PP product. The independent organisation UL Environment, a business unit of UL (Underwriters Laboratories), has documented that use of Millad NX 8000 clarifier can result in energy savings of between 8-12% in injection molded, transparent PP products. "The association is dedicated to helping the entire plastic housewares industry in China become more efficient and ecofriendlier, and thus the UL label means a lot in terms of demonstrating a commitment to energy saving," says Kurt Xu, China Business Leader, Milliken. "While this effort is still in its early stages, five of the association's leading member companies have now agreed that they will get the UL label authorization for those plastic parts they produce using Millad NX 8000 clarifier."

"So far, a dozen or so upstream makers of clarified PP resin have adopted the UL label," Veerle.Dewolf@milliken.com www.millikenchemical.com Vincent Wang,

Asia Marketing Leader, Milliken, adds, "and a few leading houseware brands in China, Taiwan and Thailand – including Picnic Plast Industrial Co. Ltd. in Thailand and Citylong Group in China – have been authorised to use it. We are seeing more and more international brands showing interests, as well."

Milliken first earned UL validation for the energy-saving benefits of Millad NX 8000 in 2013. Downstream molders and brand owners now clearly are beginning to embrace the value of the concept.

Millad NX 8000 has been proven to deliver environmental- and performance-related benefits to polypropylene. Its step-change to the performance and haze of PP supports the development of high-clarity, high-quality plastic houseware products. Importantly, use of the additive also allows conversion temperatures to be lowered in injection molding. This reduces processors' energy use and any accompanying CO₀ emissions. Numerous industrial trials indicate that use of Millad NX 8000 can lower required processing temperatures from 235°C to 190°C (455° F to 374° F), resulting in the above-noted energy savings of between 8 and 12%, while also lowering associated CO, emissions.

At a time when energy saving and sustainability are high on the agenda for all in the industry, these are huge advances.

Milliken previously noted, upon first receiving the certification, that the UL Environmental Claim Validation provides the assurance of independent confirmation of environmental credentials by a third party in markets deluged by unsubstantiated ecoclaims. Milliken stresses it is committed to developing innovations that support more sustainable processing and a reduction in environmental impact for the plastics industry. Having UL Environment verify the positive energy savings of Millad NX 8000 was a major that direction. iη

"We are pleased to see more and more brand owners and customers embrace the environmental benefits of Millad NX 8000-clarified PP resin," notes Rui Guo, China Downstream Leader "and realize how they can leverage that to differentiate themselves in a crowded, competitive marketplace by displaying the ECV label on their products."

Milliken Chemical

FOR MORE INFORMATION

COURTESY





INEOS STYROLUTION'S ABS MATERIALS SELECTED BY AUTOMOTIVE COMPANY NIO FOR THE MODEL ES8



- Lightweight solutions for innovative emobility
- INEOS Styrolution's Terluran® and Novodur® High Heat grades selected for multiple applications

INEOS Styrolution, the global leader in styrenics, announces today that three of its grades from their family of ABS (acrylonitrile butadiene styrene) materials have been selected by NIO, an innovative automotive company dedicated to electrical vehicles (EVs), for their new ES8 model.

NIO, the global electric car company, whose "mission is to shape a joyful lifestyle by offering smart, premium electric vehicles and providing the best user experience", selected INEOS Styrolution's ABS materials for applications such as door panel, mirror housing and B-pillar.

Door panel

Terluran® GP-22, a grade known for its good impact resistance, great mechanical strength and rigidity and a high quality surface finish and gloss, has been selected as a key component in the ES8's door modules.

Mirror housing

Novodur® H701, a grade from INEOS Styrolution's High Heat product family, has been selected for the mirror housing. The grade is popular for its heat resistance, high impact strength and easy flowing.

B-pillar

Novodur® HH-106, another member of the High Heat product family, was chosen for the B-pillar of the model ES8. Novodur HH-106 excels with a balanced property profile making it the material of choice for a wide range of automotive applications.

Jonah Xiong, Regional New Business Development, Asia Automotive at INEOS Styrolution, comments: "NIO is an amazing and visionary company. We are very excited to work with a company with such an innovative spirit and provide them with best-in-class materials to be successful in their market."

For further information, please visit www.ineos-styrolution.com. globalinfo@styrolution.com

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- Held in Bengaluru Detroit of ASIA, The Automobile hub
- 40% of India Plastic Consumption is at South India
- Organized and Loyal market place
- More than 350+ exhibitors
- Participation of 12+ Countries
- 30,000 + Trade Business Visitors
- Live Demonstration of Machines for Moulds, Packaging, Printing & Product
- Emerged as one among the major Plastics Exhibitions
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SABIC, PLASTIC ENERGY EN RENEWI ZETTEN EEN EERSTE STAP IN CHEMISCH RECYCLEREN VAN GEMENGD PLASTIC AFVAL IN NEDERLAND



SABIC, PLASTIC ENERGY en Renewi vinden het belangrijk dat de chemische recycling in Nederland toeneemt. Immers, chemische Recycling pakt niet alleen het probleem van de plastic afvalstromen aan, maar draagt bovendien bij aan de verlaagde uitstoot van broeikasgassen. Vorige week kondigde SABIC (een wereldleider binnen de chemische industrie) aan dat zij samen met PLASTIC ENERGY Ltd. (een Britse pionier in de recycling van chemische kunststoffen) en Renewi (toonaangevend internationaal waste-to-product bedrijf) een geavanceerde oplossing ontwikkelen voor de recycling van gemengd plastic afval in Nederland. Dit is een eerste belangrijke stap. Echter, de inzet van chemische recycling moet worden versneld, zodat de circulaire economie een effectieve impuls krijgt en het milieu wordt geholpen. Dit kan alleen met verdere stimuleringsmaatregelen vanuit de overheid en initiatieven van meerdere belanghebbenden.

SABIC en PLASTIC ENERGY maakten vorige week bekend de eerste commerciële chemische recyclingfabriek voor de productie van waardevolle grondstoffen uit plastic afval te gaan bouwen als onderdeel van de petrochemische activiteiten van SABIC in Europa. De grondstof 'TACOIL', een gepatenteerd product van PLASTIC ENERGY, zal worden vervaardigd uit gemengd plastic afval van lage kwaliteit dat anders zou worden verbrand of op de vuilstort zou belanden. Renewi zal het benodigde plastic afval gaan aanleveren en levert daardoor een belangrijke bijdrage in de totale waardeketen die de drie bedrijven nastreven met het oog op een circulaire economie. De fabriek wordt gebouwd op de SABIC site Geleen in Nederland, die gelegen is op het industriepark Chemelot. Naar verwacht

"Duurzaamheid is een kernwaarde bij SABIC en de circulaire economie is een strategische pijler, zoals ook blijkt uit deze samenwerking met de recyclingpioniers PLASTIC ENERGY en Renewi", zegt Frank Kuijpers,

algemeen directeur Corporate Sustainability bij SABIC. "We zijn er trots op dat we als eerste petrochemische bedrijf een project gaan implementeren voor de chemische recycling van plastic afval tot grondstof voor stoomkrakers. Dit enerverende project bevestigt ons streven naar de opschaling van geavanceerde chemische recyclingprocessen zodat plastic afval kan worden teruggebracht naar het oorspronkelijke plastic."

PLASTIC ENERGY heeft met succes een gepatenteerde thermochemische conversietechnologie ontwikkeld en op de markt gebracht om plastic afval dat ongeschikt is voor mechanische recycling om te zetten in bruikbare grondstoffen. Het plastic wordt in een zuurstofvrije omgeving gesmolten en afgebroken tot een synthetische olie, die vervolgens verder opgewaardeerd wordt tot een grondstof voor traditionele petrochemische toepassingen.

De gepatenteerde technologie leidt tot minder verbranding of storten van afval en biedt een milieuvriendelijk alternatief voor het verwerken van gemengd plastic afval.

"We vinden het geweldig om met SABIC en Renewi aan dit innovatieve project te werken", zegt Carlos Monreal, oprichter en CEO van PLASTIC ENERGY. "Ons team van technologen heeft ruim tien jaar ervaring met de ontwikkeling van onze geavanceerde gepatenteerde technologie, die al in twee fabrieken in Spanje 24/7 met succes wordt toegepast. We zijn er trots op dat onze expertise kan bijdragen aan deze geweldige kans om van plastic afval opnieuw plastic te maken in het kader van de circulaire economie."

Door zijn unieke expertise en uitgebreide logistieke netwerk heeft Renewi toegang tot een breed scala aan plastic afvalstromen. Het biedt daarmee een zeer effectieve en kostenefficiënte oplossing voor het inzamelen en opwaarderen van afval, waaronder gemengde plastic afvalstromen die doorgaans niet geschikt zijn voor traditionele mechanische recycling.

"Dit gezamenlijke project leidt tot minder afval en vervuiling, slimmer gebruik van schaarse grondstoffen en minder CO2-uitstoot. Zo dragen we bij aan een schonere, circulaire wereld waarin 'afval niet bestaat', zegt Otto de Bont, Managing Director van Renewi. ON

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Top-10 Injection Molding Defects & How To Fix Them

Making injection molded prototypes is both an art and a science. High levels of technical expertise and attention to detail are required to prevent small mistakes from costing companies big money when it comes to massproduction of novel parts.

Preventing such a circumstance is all about highly competent design. This article discusses some of the molding defects that can occur in a part during injection molding, and ways to fix and avoid them. Design shortcomings we will discuss include:

- 1. Flow Lines
- 2. Sink Marks
- 3. Vacuum Voids
- 4. Surface Delamination
- 5. Weld Lines
- 6. Short Shots
- 7. Warping
- 8. Burn Marks
- 9. Jettina
- 10. Flash

Most mistakes are caused by nescient personnel without the necessary experience or the right tools at their disposal. Conversely, creative solutions and ingenuity abound in personnel with the right experience and the correct combination of hardware and software. Finding the right team of people with relevant expertise is the most important part of the process.

Flow Lines

Description: Flow lines are streaks, patterns, or lines - commonly off-toned in color - that show up on the prototype part as a consequence of the physical path and cooling profile of the molten plastic as it flows into the injection mold tooling cavity. Injection molded plastic begins its journey through the part tooling via an entry section called a "gate." It then flows through the tool cavity and cools (eventually hardening into a solid).





Causes: Flow line defects are caused by the varying speed at which the molten plastic flows as it changes direction through the contours and bends inside the mold tool. They also occur when the plastic flows through sections with varying wall thickness, or when the injection speed is too low causing the plastic to solidify at different speeds.

Remedies:

- 1. Increase injection speeds and pressure to the optimal level, which will ensure the cavities are filled properly (while not allowing the molten plastic time to start cooling in the wrong spot). The temperature of the molten plastic or the mold itself can also be elevated to ensure the plastic does not cool down sufficiently to cause the defect.
- 2. Round corners and locations where the wall thickness changes to avoid sudden changes in direction and flow rate.
- 3. Locate the gate at a spot in the tool cavity with thin walls.

Sink Marks

Description: Sink marks are small craters or depressions that develop in thicker areas of the injection molded prototype when shrinkage occurs in the inner portions of the finished product. The effect is somewhat similar to sinkholes in topography, but caused by shrinkage rather than erosion.



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Causes: Sink marks are often caused when the cooling time or the cooling mechanism is insufficient for the plastic to fully cool and cure while in the mold. They can also be caused by inadequate pressure in the cavity, or by an excessive temperature at the gate. All else being equal, thick sections of the injection molded part take longer to cool than thin ones and so are more likely to be where sink marks are located.

Remedies:

- 1. Mold temperatures should be lowered, holding pressure increased, and holding time prolonged to allow for more adequate cooling and curing.
- 2. Reducing the thickness of the thickest wall sections will also ensure faster cooling and help reduce the likelihood of sink marks.

Vacuum Voids

Description: Vacuum voids are pockets of air trapped within or close to the surface of an injection molded prototype.



Causes: Vacuum voids are often caused by uneven solidification between the surface and the inner sections of the prototype. This can be aggravated when the holding pressure is insufficient to condense the molten plastic in the mold (and thereby force out air that would otherwise get trapped).

To be continued in next edition

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Dear Readers,

Injection molding in INDIA is an age old business and any Tom, Dick or Harry knows it well, rather claim to know well.

As all know and have seen, there are hundreds of items with thousands of designs and 'n' number of colors and variations, the molded articles are available, thrown and imposed at times in the market. The fast changing people and faster changing tendencies of imitators assist this business to carry on.

Still one item or article is majorly ignored by many investors in INDIA.

Injection Syringe.



The Business demands investment in Machinery for about Rs 2.01 Cr which is in fact not a big amount for many enthusiast investors in INDIA. Against which profit possibility of 59.77 Lac is not bad!

Have a look at the figures below.

Machinery cost	20896000
Land Cost Assumed to arrive at project cost, with expansion in mind.	7500000
Building 4675 Sq Feet	3272500
Utilities	2750000
Installation Cost	500000
Consultant's cost	150000
Total project Cost	35068500
Production per Year Average Nos. of syringes	21565440
Profit per Year possibility	5977940

The entire set up of machinery, [except Barrel + Plunger assembly which is Chinese Best] can made in INDIA inclusive of Highest possible quality molds as needed.

The set up within the above assumed cost is for the best class from where you can export as well; well sterilized and packed syringes can be prepared.

Why this business:

- 1) For the product, there is no custom to use or even demand the established brand.
- 2) Go to the market and ask for the syringe: Most places you cannot get so-called established brand/s.
- 3) Meaning there is no National brand or brands those are demanded, no brand or brands are registered in to the brains of people.
- 4) The patients and crowds, who are sick, who are the relatives of sick, the populous Nation, unorganized market and illiterate class of people neither are used to or not enough educated to identify the quality of brand for the health aspects in this country even these days, my challenge is, not even in big cities. (Cities have become big in INDIA with the rural sector rush, the people are again not enough literate of trained on anything, the demand of human power has pulled them in to the cities, making towns in to cities: Are Mumbai and Delhi not perfect examples?)
- 5) Talk of the few areas in the cities of INDIA which have literate enough class of people who demand the brands even for the health sector, go to other newly developed areas and out skirts of the cities, people are absolutely ignorant about the quality and class and so this curse can be converted in to blessing to sell. We do not recommend pushing the inferior quality; the new brand can have scopes to enter in to easily.
- 6) Nor there is any rocket science to produce this product.
- 7) Has lot of potential to export market, HUGE market.
- 8) The product is demanded day in and day out, the entire world's Gutter nations need medication and such equipments and instruments in quantities and with continuous frequency.
- 9) The populous Nations have issues of continuous population explosion; uncontrolled democracy allows INDIA kinds of hot nations to offer innumerable human units who need injections syringes, and in fact many such consumable items. [CHINA controlled due to non-democracy, others cannot.]
- 10) Make Quality and command the market with infusion of higher capital and be the Market KING, this offer is still awaiting this product, Trust us.

Injection molding is not just about the Bucket and tumblers or just furniture, has luster still with it. WELCOME.

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Plastic is conquering one after another product field and its invasion is fast progressing with the passage of the time. As we stated earlier that Plastic is to almost eliminate wood usage, one more product being replaced fast is DOOR FRAME. The material which replaces wood is Wood (least possible percentage) + Plastic + CaCO3.



Why it is worth to replace wood for such applications?

Cost, Process, time, after effects and maintenance, color varnish & maintenance issues, strength and durability, weather's effect, to get rid of such issues, Wooden Door-frame material is being replaced mainly by Plastic for which PVC is proposed as comparatively lighter material. {PP/ HDPE are heavier}

In fact such material saves time of Carpentry and money on process, and is easier to install as well.

Technically such frames should be made at 0.9 GCC density. India ideally uses the sizes of 5" x 4", 4"x3" and so on.

BUT one most unfortunate character is, we need Solid frames, People feel and assume that solid frames can offer strength. Tis mental block still makes our frames costlier and unnecessarily heavier. Whereas CHINA and others use hollow sections as below.



Understand the figures for the project:

- o The investment in the project can be:
- Machinery Rs 50 to 65 Lac Landed
- o Each Die can cost Rs.5 Lac
- o Building of about 5000 Sq. Feet can be sufficient. (Rs. 35 Lac)
- Land one acre at Rs 35 Lac.
- o Rs 50 Lac towards other initial project cost, including EB Deposit cost.
- And Working capital cost can be near to Rs. 50 Lac. Now also note the important Data which can tempt us towards this business initiation.
- Merely for Rs 53 to 55 per Kilograms the material can cost to make,
- Conversion cost can be Rs 13.6 to Rs 13.75 per Kilogram.
- Production can touch 900 to 950 TPA, assuming 24 hours x 312 Days' Production.

These days, this is 'THE BEST" Small project, easily to enter in to.

Can go for it very safely since now there are good number of manufacturers who make 30 to 32 mm and 3 feet/ 2.75 feet / 2.5 feet wide PVC foamed board, which is used directly as Door boards and frames are very well needed to couple with such doors.

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



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India.

SHOW REPORT ON INDPLAS'18 - 8th INTERNATIONAL EXHIBITION ON PLASTICS, HELD FROM 30th NOVEMBER -3rd DECEMBER ,2018 AT ECO PARK EXHIBITION GROUND, KOLKATA, INDIA.



Federati organize its triennial exhibitio

n Indplas'18- the 8th International Exhibition on Plastics in Kolkata from 30th November to 3rd December, 2018. Indplas has achieved the distinction of being the largest sector specific exhibition and only International Plastics exhibition to be held in Eastern

The exhibition was supported by Ministry of Chemical & Fertilisers, DCPC, Govt. of India, WBIDC, Govt. of West Bengal, ASSOCHAM, FICCI, Indian Chamber of Commerce, Plastindia Foundation and all major plastics associations of India.

The exhibition opened its door on 30th November and the inaugural function was held on 1st December, 2018 where Dr. Amit Mitra, Hon'ble Minister of Finance, Commerce & Industry, Government of West Bengal was the chief guest. Senior Bureaucrats from State Govt., Heads of major



Petrochemical producers, office bearers of Plastindia Foundation, members from various associations and many

dignitaries were present during the inaugural function. The exhibition was held on an area of 70,000 sq mtr. 412 exhibitors participated in the exhibition occupying 8500 sq mtr area. 90 foreign exhibitors from China, Taiwan, Malaysia, Hong Kong, Germany, Switzerland, Netherland and other

In dian countries participated, some with live demonstration Plastics of machine as well.

on (IPF) Two Chinese delegation of 40 members visited the exhibition to explore business co operation and investment opportunities in India. They also held meetings with State Govt. officials and discussed in length about the policies and investment opprotunitis. During the meeting with Chinese delegation Mr. Yu Xiong, Consulate General of PRC was present. They were very impressed with the exhibition and the potential in Eastern India and assured for future co-operation with IPF and participate in large number in Indplas'21.



For the first time, a Reverse Buyer Sellers meet (RBSM) w a s organize

d in association with PLEXCONCIL on day 1 and day 2 at the exhibition venue. Around 55 buyers from 10 different countries attended the exhibition and held meeting with various exhibitors. This RBSM organized during the exhibition will help and boost the exports of plastics products from India. The buyers visited the exhibition as well and had meetings individually with exhibitors and explored their product requirement. The exhibition covered all aspects of plastic industry viz. polymer producers, machinery companies participated with live demonstration of the machines. Mould & Dies, ancillaries, additives and masterbatch manufacturers were present in the exhibition. Large number of finished product manufacturers also showcased their products in the exhibition.

An interactive seminar was held by WBIDC in association with IPF and FICCI on Day 1 on importance of boosting the plastics industry in Eastern India.

On Day 3, a seminar on Plastics Waste to Wealth was held on the 2nd of December.

IPF had invited eminent personalities as key speakers at the



seminar scientists, entrepren eurs and social influencer s, who have been working in the field of waste plastics for years now.

Padmashri Dr. R. Vasudevan spoke about the technology of using waste plastics in the construction of roads. His demonstration was followed by a very inspiring speech and audio visual presentation by Shri Prashant Lingam, a start up entrepreneur and motivational speaker who makes houses, paver tiles, furniture and other items with waste plastics. Shri Isith Gangooly spoke about pyrolysis and his endeavours in this field. The seminar was also graced by the veteran, Shri Vijay Merchant, who spoke on the versatility of waste plastics. Shri Jayesh Rambhia, Hony Treasurer of the Plastindia Foundation, moderated the seminar with insightful inputs of his own on the waste management system in India and its history and relevance from the Vedic ages.

Among the dignitaries who attended the seminar, the Vice Chancellor of the Maulana Abdul Kalam Azad University of Technology, professors from the Jadavpur University, eminent members of ICPE and IPF Student community was also invited to make them aware about using plastic responsibly.



innovative theme pavilion w a construct ed in the exhibition which showcase d t h e

innovative and versatile use of plastics like 3D, waste to Oil, carving on plastics etc

The exhibition witnessed footfall of more than 1 lakh business visitors from all over India and especially from Eastern and North Eastern States. Visitors from neighboring countries of Nepal, Bangladesh, Bhutan, and other parts of the world also attended in large numbers.

2000 Students from different schools of Kolkata were invited to see the exhibition and learn about plastics. The students were very impressed the theme pavilion and various use of plastics in our day to day life. They

had a chance to see live machines producing plastics products. Complimentary transportation and food was provided to the students.



An award night was held on 2nd December, 2018 to honour and recognize exhibitors for their efforts with awards in various categories. The Award Night was accompanied

with an entertainment programme and dinner.

An entertainment Gala Nite programme with dinner was organized on the evening of 1st December at Mistika Banquet inside the ground for the exhibitors to relax and entertain after two days of hectic exhibition time. The function was appreciated by one and all as the venue was inside the ground making it convenient for exhibitors to attend.

The exhibition concluded on 3rd December 2018 with much fun fare. Exhibitors were happy with the arrangements and the visitors footfall. The feedback received from exhibitors and visitors has been extremely encouraging. Business concluded and leads generated during the exhibition were more than 150 crore. We are confident that, with the success of this exhibition there will be boost in the development of Plastics Industry in Eastern India and huge investment will be made in the coming years.



h ρ organizers are thankful to all the sponsors, exhibitors, visitors, media partners,

print and digital

media, support associations, vendors and well wishers for the grand success of Indplas'18. We look forward to same support for our next exhibition Indplas'21.

Regards

Ashok jajodia Chairman-Indplas'18

PLASTI WORLD 2019 EXHIBITION FOCUS

Human life and making it better is our business. Plastic resides in the core of humanity's desideratum. As an individual, we have made great plastic products, but as an industry, we have achieved enormous success. That's why no one is surprised to the fact that the UFI approved Plastivision exhibitions that are organized by AIPMA(All India Plastics Manufacturers' Association) occupy a central place in the calendar of Plastic Industry events in the subcontinent region.

To nurture the industry more, AIPMA takes the next evolutionary step by creating the most comprehensive Global Sourcing platform for Finished Plastics and Packaging End Products. AIPMA and CIPET (Central Institute of Plastics Engineering & Technology) proudly announce the inaugural edition of PlastiWorld held in Pragati Maidan, New Delhi from 5th to 8th March 2019 to address the sourcing related pain points of the End User Market of Plastics in India and beyond!

On 12th December 2018, a roadshow was held at Tamarind, India Habitat Centre Lodhi Road, New Delhi. The AIPMA officials discussed about the mega event which is all set to become the first trade show in India that brings together plastic industry manufacturers, distributors, retailers, suppliers, and buyers of finished plastic products under one roof. PlastiWorld 2019 is expected to witness a participation of over 150 exhibitors who will be showcasing their products in the 4-days event and get

exposure to more than 15,000 Sourcing Professionals hailing from around 6,000 companies. The exhibitors will be highly benefitted as they find their next Sales, Marketing and Distribution Partners across India.

The exhibition will be showcasing products for and from various sectors like Agriculture, Automobile, Electrical, Electronics, IT, Food & Beverages, Gift, Novelty, Houseware, Kitchenware, Furniture, Building, Construction, Infrastructure, Packaging & Decoration, Marine, Medical, Healthcare, Hospital Equipment, Plumbing, Sports, Travel, Luggage, Consumer Durables among others.

AIPMA has mobilised a large number of buying delegations from the end user sectors of plastics, which comprises of Decision Makers, Opinion Builders and Influencers as far as Purchasing Decisions are concerned. Government Sourcing will form a major chunk of this turnout. It will give the manufacturers and suppliers of plastic products an unprecedented and captive exposure to the sourcing related decision makers who control huge budgets and will attend PLASTIWORLD 2019 with a serious purchasing intent.

The event is receiving a phenomenal response from the Plastics industry. It is supported bythe entire plastic industry including the Ministry of MSME, Government of India. We urge you to book your space at the earliest as the prominent booth locations are rapidly filling up.

EXHIBITION DETAIL

PLEXPO-2019	MUMBAI	17TH TO 20TH JANUARY-2019
INDIAPLAST	NODIA	28TH TO 4TH MARCH-2019
PLASTI WORLD	DELHI (PRAGATIMAIDAN)	5TH TO 8TH MARCH-2019
IPF BANGLADESH 2019	DHAKA,BANGLADESH	17TH TO 20TH JANUARY-2019
IPLEX-2019	BANGALORE	23 TO 25 AUGUST - 2019
PLASTI VISION-2020	MUMBAI	16TH TO 20TH JANUARY-2020

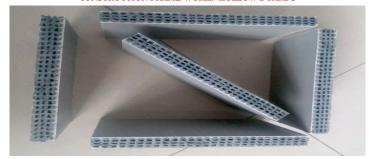








NEW PROJECT FOR INDIA. PLASTIC IS REPLACING ALL KINDS OF WOOD AND MUCH OTHER MATERIAL AND MANY OTHER APPLICATIONS. CONSTRUCTION FRAME WORK: HOLLOW BOARDS



Construction business in INDIA is on fast speed these days and is to continue to compensate for the houses and all other sorts of Building needs of continuous and ever ongoing population explosion!

We need Buildings and this sector, though face recession at times, still never dies.

Construction boards in INDIA traditionally have been wooden boards of various thicknesses and densities which erode with the time faster, break. The wood is scarce and becoming costlier by day.

BUT the replacement is here now.

- o The **re-cycled** PLASTIC + CaCO3 Boards, though hollow still much stronger.
- o Can be made lighter
- o Never gets termite
- o Do not get wet
- Cannot break if not thrown harshly
- o Supports wall and RCC in with much better strength
- o Gifts cleaner and smoother surfaces
- o MUCH longer life and so is much economical

The boards are made in densities of 0.52 to 0.58 GCC and in thicknesses of 14 to 20 mm and sizes of 915 mm x 1830 mm to 1220 mm x 2440 mm. Usually at such Densities, the weight works out to be 0.720 Kg per to 0.937 Kilogram per Square foot.

Why this board is stronger even when it is hollow is its A-B-A construction, three layered and the top and bottom surfaces being better plastic the central layers can have much of re-cycled and high on CaCO3 content as filler.

Screwing and nailing etcetera have not been issues and re-using 'n' number of times is also not a problem as long as it is well handled.

The project can start with an initial investment of Rs 3.5 Cr. This is relatively a new product and absolutely a virgin market. Look at the figures.

All Initial expenses	4661200
Machinery	16365220
Land	7000000
Building	1000000
Total Project cost	38026420



Kamal Shah Positiveaggression Ahmedabad Consultants for NEW projects.

We are Ahmedabad based consultants, assisting to set up new projects.

નાનાંરોકાણ વાળાંનવા પ્રોજેક્ટસઃ

પેપરપેન્સિલઃ કુલશરુઆતીરોકાણ રૂપિયા દસ લાખ.

વાંસનાલાકડામાંથી અગરબત્તીબનાવો. મશીનરી માંરોકાણ રૂપિયાબાવીસલાખ સુધી.

Two Side Tap Gumming line (hot melt Adhesive Line) Machine: 45, 50,000

Double sided Foam tape; Glassine liner (this is silicon paper) + adhesive (from 30gr to 60gr this is hot melt alue) + PE or EVA Foam (1,00mm) + adhesive (from 30ar to 60ar) Machine space 30 feet x 7.5 feet x 7.8 feet. Factory Building space= 2500 Sq. Foot, 60 HP power.

Production Capacity: 50 MPM

Egg or Fruit Tray Making: Machine cost 20, 00,000

Building needed 1000Sa. Feet and total space needed 1500 Sa. Feet 33 HP power Production 1000 Trays per hour

PP SUTLI Making (SYNTHETIC STRING): Machinery cost about Rs. 20, 00,000

Space needed 1200 to 1500 Sq. Feet 35 HP power

Production 35 to 50 Kg per hour

PVC wall & Ceiling panel Making: Machinery cost about Rs. 50, 00,000

Space needed 4,000 Sq Feet.

Production capacity 100 Kg/ Hour 60 HP power

Chalk making machines. Machinery cost Rs. 1, 80,000 for capacity 4000 Pcs/8 Hours, Rs. 3, 10,000 for 10000 Pcs/8 Hours or Rs. 4, 50,000 for 20,000 Pcs/8 Hours capacity.

Space 500 Sq Feet.

Potato chip making line

Flow chart: 1.clean and peeling---2 chipping---3 blanching---4 de-waterer---5 frying ---6 de-oiling---7 seasoning---8 packing

Machinery about Rs. 16, 00,000 and Space needed can be 1500 S. Feet 40 HP power

- Hollow Construction Boards to replace Shuttering ply. This board can be used for 80 to 100 times and so proves much cheaper. Made from Recycled plastic plus CaCO3.
- SPC- Solid PVC flooring replacement of wooden flooring. (Made from PVC+CaCO3 is an option of wooden flooring.)
- Wood plastic Doors and Frames to replace all kinds of traditional wood doors and frames.
- Replacement of plywood: **PVC Foamed boards** and Wood plastic boards Making.
- o Option of Granite and marbles and wall tiles: **PVC Marble look-alike boards** making.
- 1 mm thick PVC laminate to replace all traditional laminates.

Welcome to Ahmedabad to discuss.

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And profitability statement works out as below.

Conversion cost /Kg	12.4
Material cost per Kg	56.25
Total cost per kg	68.65
Assume sales price at Rs	75
Production / Year in Kg	2386800
Profit per kg at Rs	6.35
Profit per vear possible	15156180





Should go for this business since there is no competition so far in India.

The Author, based at Ahmedabad-INDIA, is a professional consultant, assisting to set up New and

Lucrative projects. Kamal Shah Positive Aggression.

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MANGAL MURTY TECHNO SLIDES **ENGINEERING SLIDE CHARTS PLASTIC & RUBBERS CHEMICAL COMPOSITIONS MACHINE SHOP FABRICATION SHOP** TROUBLE SHOOTING IN PET BOTTLE STRETCH BLOW MOULDING TROUBLE SHOOTING IN CONTAINER EXTRUSION BLOW MOULDING TROUBLE SHOOTING IN PLASTIC FILM / SHEET EXTRUSION TROUBLE SHOOTING IN INJECTION MOULDING OF LIQUID SILICON RUBBER (LSR) **PROPERTIES OF 54 ENGINEERING PLASTICS** 2- Aarohi Residency, Near Sardar Patel Ring Road, South Bopal, Ahmedabad. 380 058 . Gujarat. India. PRABHAKAR. T. VIDWANS mangaltechno@rediffmail.com M:-94291 32286









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અનેક સમસ્યા વચ્ચે પીસાઈ રહેલે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝ

પ્લાસ્ટીક પ્રોડક્ટસ માટે ભારત વિશ્મમાં ઘણા ક્રમાક ધરાવે છે.સમગ્ર દેશમાં આ ક્ષેત્ર માં ઘણા એકમો આવેલા છે. તદ્ ઉપરાંત પ્લાસ્ટીકનો ઉપયોગ આજે મોટા ભાગની ઈન્ડસ્ટ્રીઝ વિવિધ ક્ષેત્રે કાર્ચરત 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 કાર્ચરત છે. જેમ કે મશીનરીની બનાવટ. રો મટીરીચલ તેમજ મોલ્ડીંગ પ્રોડક્ટસ બનાવનારા ઉદ્યોગો ફેલાચેલા છે. સમગ્ર દેશમાં કેલાચેલ પ્લાસ્ટીક ઉદ્યોગ હાલ કઠીન સંજોગોમાંથી પસાર થઈ રહ્યો છે. એકાદ બે નઠી 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 નઠી આપવા વિરોધ વચ્ચે ઠાલમાં સમગ્ર દેશમાં કરોડોના પ્લાસ્ટીકના ઉદ્યોગની હાલત સુકા ઝાડ જેવી દુકાળગ્રસ્ત જેવી ઠાલતમાં પીસાઈ રઠી છે.

પ્લાસ્ટીક ઉદ્યોગમાં ચાલી રહેલી મંદીના કારાગે તેમજ સતત ભાવ વધારા વચ્ચે મોટા ભાગના કારખાના મરવાના વાંકે જીવી રહ્યા છે. મશીનરી બનાવટના સેક્ટરની ઈન્ડસ્ટ્રીના અગ્રણીઓને ડર છે કે બજારમાં જ્યારે માંગમાં વધારો થશે ત્યારે કેટલી ઈન્ડસ્ટ્રીઓ કાર્ચરત હશે. પ્લાસટીક હાલમાં દરેક ક્ષેત્રોમાં જેમ કે ઓટોમોબાઈલ ક્ષેત્રે, ટેક્ષ સ્ટાઈલ ક્ષેત્રે, ઓટો પાટર્સ, મશીનરી, મત્સ્ય ઉદ્યોગ, ઈલેક્ટ્રીકલ

ઉપકરણો વગેરે જેવા ઉદ્યોગોમાં માંગ ઘટતા પ્લાસ્ટીકના માલના વેચાણને સીધો માર પડ્યો છે. આ ઓછુ 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 અમક સમચથી કાચામાલના ભાવમાંઅદાજે ૯૫ % વધારો થયો છે. આ ઉપરાંત મોટા ભાગે મશીનરી મોઘી થઈ રહી છે. કારીગરોની અછત, વીજળી ખર્ચમાં ખાસ્સો વધારો થઈ રહ્યો છે. આ બધુ ઓછુ, હોય એમાં કેન્દ્ર સરકાર કે રાજ્ય સરકાર ના નિયમો ની ઘણી સમસ્યાઓનો સામનો કરવો પડે છે. ભારતમાં પ્લાસ્ટીક ઉત્પાદનમાં ૩૫% મોટા એકમોનો દિસ્સો રહેલો છે. જયારે મધ્યર્મ અને નાના એકમોનો ૬૫% હિસ્સો હોય છે.

ઈન્ડસ્ટીઝ માં ટકી રહેવા માટે અને મંદીના મોહોલ વચ્ચે ઉત્પાદન જારી રાખવા માટે પ્લાસ્ટીક ઈन्ડस्ट्रजना वेपारीओने सरडारना टेडानी જરૂર હોય છે. ઓછી માંગ વધતા બાબતને કારણે એમનીના નાણાંકીય હાલત ઘણી નાજુક થઈ ગઈ છે. આ દરમ્યાન મુજુરોના વધતા પગાર વધારાને કારણે કારીગરની અછત જોવા મળી રહી છે. આ ઉદ્યોગ માટે ઠાલનો 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 ન્યાચીક તપાસ કરાવે તોજ સાચી હકીકત થી સરકાર માહીત ગાર થઈ શંક શે.



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Latest Feedstock offers: (\$/mt)							
Sr. No.	Product	Today	Yesterday	Difference			
1	Naphtha (C&F Japan)	\$480	\$460	\$20			
2	Propylene (CFR China)	\$945	\$945	Stable			
3	Ethylene (CFR NEA)	\$820	\$820	Stable			
4	Styrene (CFR China)	\$980	\$995	-\$15			
5	PTA (CFR China)	\$810	\$820	-\$10			
6	MEG (CFR China)	\$630	\$640	-\$10			

Rate Revision wef 1/1/19:

▶Reliance Ind.

- ✔ PP/LLDPE/LDPE: No Change
- ✓ HDPE Blow mldg./Film: Down by Rs.3/kg.
- ✔ Other HDPE: No Change ✓ PVC :Up by Re.1/kg. ✔ PET: No Change
- ✓ PP: Down by Rs.1.62/kg for Deemed Export

▶ IOCL

- ✓ PP: Roll over.
- ✓ HM-Film: Down by Rs 1.5/kg
- ✓ Pipe Grades/Blow Mldg: Down by Rs 3/kg.
- ✔ Other PE grades: No Change

International offers for India (CIF Nhava Seva-\$/MT).: Jan'19-Feb'19

► Saudi Arabian refiner has offered Polymers:

PP

- ✔Raffia (H1030): \$ 1110
- ✓ Injection Molding (H 4220M): \$1110
- **✔**BOPP(H3030): \$ 1140
- ✓ Film (H4025): \$ 1140

HDPE

- ✓Blow Mldg (B1258):\$ 1100
- ✓ Film (F0455):\$ 1100
- ✓ Pipe 100 Black: \$ 1200
- **LDPE**
- ✓ Film (0725N): \$ 1070
- ✓ Film (1925AS): \$ 1050

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

► Formosa Plastic

Grade: S60/S65/S65D/S70R: \$930/mt

Grade: B57: \$ 940/mt

► LG Chemical

Grade: LS100E: \$ 920/mt Grade: LS100H: \$ 930/mt

► Zhongtai Chemical,

Grade: SG 5 @ Price: \$ 795/mt + A.D.D. of 123 \$/mt

► HANWHA

Grade: Suspension at \$ 940/mt

► TIANYE

Grade: SG 5@Price:\$ 865/mt + ADD of 91.27 \$/mt

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

Grade (Application)	CIF Nhava Sheva:(\$ /mt)				Trend	<u>Last week</u>	
Poly Propylene:P.P	§ From		_ <u>\$</u>		<u>To</u>	_	Report \$/t
Raffia (Homo Polymer)	\$	1080	То	\$	1090	Up	(+5)
Injection moulding , (Homo polymer,11 M.F.I.)	\$	1085	То	\$	1095	Up	(+5)
Film (Tubular quench-T.Q.), (Homo polymer)	s	1090	To	\$	1100	Up	(+5)
B.O.P.P.	\$	1120	То	\$	1130	Up	(+5)
Impact Co-Polymer (I.C.P or P.P.C.P.)	s	1110	То	\$	1120	Up	(+5)
Random Co-Polymer ,(R.C.P.)	\$	1130	То	\$	1140	Up	(+5)
Grade (Application)		CIF Nhav	a Shev	va:(\$ /mt)		Trend	Last week
High Density Poly Ethylene: H.D.P.E.	<u>\$</u>	From	_	<u>\$</u>	<u>To</u>	_	Report \$/t
Raffia	S	1090	To	\$	1100	Stable	N/c
Injection moulding (18 M.F.I.)	\$	1010	То	\$	1020	Stable	N/c
Blow moulding	S	1115	То	\$	1125	Stable	N/c
HM Pipe (P.E80)	\$	1110	To	\$	1120	Stable	N/c
HM Film	\$	1100	То	\$	1110	Stable	N/c
HM Blow	\$	1115	То	\$	1125	Stable	N/c
Grade (Application)		CIF Nhav	a Shev	a:(\$	<u>/mt)</u>	<u>Trend</u>	<u>Last week</u>
Linear Low Density Poly Ethylene:L.L.D.P.E.	<u>\$</u>	<u>From</u>	-	<u>\$</u>	<u>To</u>	_	Report \$/t
Film (1, M.F.I.)	\$	1030	То	\$	1040	Up	(+20)
Roto moulding	\$	1040	То	\$	1050	Up	(+20)
Injection moulding (High M.F.I.)	\$ \$	1140	То	\$	1150	Up	(+20)
Lamination		1060	To \$ 1070			Up	(+20)
Grade (Application)		CIF Nhava Shev				<u>Trend</u>	<u>Last week</u>
Low Density Poly Ethylene: L.D.P.E.	<u>\$</u>	<u>From</u>	-	<u>\$</u>	<u>To</u>	-	Report \$/t
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
Grade (Application)		CIF Nhav	a Shev	a:(\$	<u>/mt)</u>	<u>Trend</u>	<u>Last week</u>
Poly Vinyl Chloride :P.V.C.	<u>\$</u>	<u>From</u>	_	<u>\$</u>	<u>To</u>	-	Report \$/t
Suspension (Pipe / Extrusion) ," K' Value 67	\$	920	to	\$	930	Stable	N/c
Injection Moulding,"K" Value 57	\$	940	to	\$	950	Stable	N/c
Grade (Application)		CIF Nhav	a Shev	a:(\$	<u>/mt)</u>	<u>Trend</u>	<u>Last week</u>
Poly Styrene:P.S.	<u>\$</u>	<u>From</u>	-	<u>\$</u>	<u>To</u>	-	Report \$/t
GPPS	\$	1290	to	\$	1300	Down	(-30)
HIPS	\$	1350	to	\$	1360	Stable	N/c
Grade (Application)		CIF Nhav	a Shev	a:(\$	<u>/mt)</u>	<u>Trend</u>	<u>Last week</u>
A.B.S (Acrilonitrile Butadiene Styrene)	<u>\$</u>	<u>From</u>	-	<u>\$</u>	<u>To</u>	-	Report \$/t
ABS	\$	1470	to	\$	1480	Down	(-20)
Grade (Application)		CIF Nhav	a Shev	a:(\$	<u>/mt)</u>	<u>Trend</u>	<u>Last week</u>
E.V.A 18 %	<u>\$</u>	<u>From</u>	From S		<u>To</u>	_	Report \$/t
E.V.A 18 %	\$	1500	to	\$	1510	Stable	N/c
Grade (Application)		CIF Nhav	a Shev	a:(\$	<u>/mt)</u>	<u>Trend</u>	<u>Last week</u>
P.E.T.	<u>\$</u>	<u>From</u>	_	<u>\$</u>	<u>To</u>	_	Report \$/t
P.E.T.	\$	1110	to	\$	1120	Up	(+10)



<u>Today's Indian Domestic Polymer Price</u>:

(Rs/Kg,Excl.GST)

Poly Propylene H030SG (Raffia)	Availability Available	Ahmadabad 87.00	Mumbai 86.00	Delhi 87.00	Bengaluru 87.75	Chennai 88.00	Indore 88.00	<u>Kolkata</u> 87.50
H350FG (Lamination)	Available	90.00	88.50	90.50	91.00	91.50 90.50		89.00
H100EY (Film)	Available	88.50	87.75	88.75	89.75	89.75	89.50	90.00
H110MAS (Inj. Mldg)	Available	86.75	85.75	88.75 89.75 89.75 87.25 87.75 88.50		87.75	88.50	
MI3530 (CP-Inj.mldg)	Available	92.00	90.50 92.50		93.25	93.50	92.50	94.00
RCP SRM 100 NC	Available	93.50	92.50	94.50	95.25	95.00	94.50	94.50
RCP SRN 20 NC	Available	93.00	92.00	93.75	94.75	95.00	93.00	94.00
H050 MN	Available	89.50	88.00	89.50	90.50	91.50	90.00	90.75
IOCL - PP	7 X V an abre	Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
H1110 MG	Available	86.25	84.75	87.75	87.50	87.50	86.75	87.00
PP IM-HMEL M 12 RR	Available	86.25	84.75	87.50	87.25	87.50	86.75	89.00
PP Film	Available	88.00	87.00	89.00	89.50	89.75	89.00	89.00
H.D.P.E. Raffia		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
E 52009	Available	90.00	88.50	89.50	91.25	91.75	90.00	91.00
W 50A009 / W 52	Available	89.00	88.00	87.50	90.75	91.25	89.50	89.25
Т9	Available	88.75	87.25	87.00	90.00	90.50	88.75	88.50
H.D.P.E. Inj. MI		Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
50 MA 180	Available	87.75	86.75	88.25	89.75	89.00	88.25	89.25
M 5018L	Available	88.25	87.25	88.75	90.00	89.75	88.75	88.25
1 56 A 200	Available	88.00	85.75	87.25	88.25	88.25	87.00	87.75
180M50 (IOCL)	Available	88.25	86.75	88.25	89.25	89.25	88.00	88.25
H.D.P.E. H.M.(Fi	lm)	Ahmadabad	Mumbai	Delhi	Bengaluru	Chennai	Indore	Kolkata
003DF49 (IOCL)	Available	86.75	85.75	86.00	88.50	87.75	87.25	87.00
F 5400	Available	88.50	87.50	87.75	90.25	90.00	89.00	88.25
GAIL 55 (F55HM)	Available	87.75	86.75	86.75	89.25	88.75	88.25	87.75
OPaL	Available	86.25	85.25	85.50	87.75	88.25	86.75	87.00
H.D.P.E. BLOV	<u>v</u>	Ahmadabad	Mumbai	<u>Delhi</u>	Bengaluru	Chennai	Indore	Kolkata
B52	Available	88.50	87.50	88.25	89.00	90.50	89.50	89.25
012DB54 (IOCL)	Available	87.00	86.25	87.75	87.75	89.25	88.25	88.25
B 6401	Available	89.00	88.00	89.00	90.00	91.00	90.00	88.50
B56003/54GB	Available	88.50	87.50	89.50	89.50	90.50	89.50	87.00
LLDPE FILM		Ahmadabad	Mumbai	<u>Delhi</u>	Bengaluru	Chennai	Indore	Kolkata
LL F19010	Available	78.75	77.75	78.00	80.25	80.75	78.75	79.50
GAIL Pata 2	Available	78.00	77.00	77.50	79.75	80.00	78.00	77.50
LLDPE ROTO	<u>)</u>	<u>Ahmadabad</u>	Mumbai	<u>Delhi</u>	<u>Bengaluru</u>	Chennai	<u>Indore</u>	<u>Kolkata</u>
HPL 73204T	Available	80.50	79.50	80.25	82.25	82.75	81.00	86.00
36RA045	Available	83.00	82.00	82.75	84.75	85.25	83.50	85.25
L.L.D.P.E lamina	tion_	<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>
E24065	Available	89.00	88.00	90.50	91.50	91.75	89.50	91.00
L.D.P.E.		<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	84.00	83.00	85.00	85.75	86.25	84.50	84.50
16 MA 400	Available	90.50	89.50	91.50	92.50	92.75	91.00	90.00
1070 LA 17	Available	98.00	97.00	99.00	100.00	100.50	99.50	100.00
LLDPE INJ.ML	<u>DG</u>	<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	Chennai	<u>Indore</u>	<u>Kolkata</u>
M26500	Available	87.00	85.50	87.75	88.50	89.00	87.25	88.50
<u>PVC</u>	T	<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	79.00
K - 5701	Available	79.00	78.50	79.25	80.00	80.25	80.00	80.50
Imported Mat.67 (K-Value)	Available	76.00	75.00	75.25	76.00	76.50	76.00	75.75

Other Material

LL Film (1 M.F.	I)	Ahmadabad	<u>Mumbai</u>	<u>Delhi</u>	Bengaluru	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>		
Imported LL	Available	75.00	73.75	74.75	75.75	75.75	75.25	76.50		
Imported LL 1018 H	Available	74.75	73.50	74.50	75.50	75.00	75.00	75.00		
HM film		Ahmadabad	Mumbai	<u>Delhi</u>	Bengaluru	Chennai	Indore	<u>Kolkata</u>		
	Available	83.50	82.00	82.50	84.75	85.25	83.50	84.50		
Imported HM	Available	84.50	83.25	84.00	86.00	86.50	84.75	85.00		
	Available	83.00	81.25	82.00	84.00	84.50	82.75	83.00		
LDPE LAMI. (7 M	.F.I.)	<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	Bengaluru	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>		
Titan 801 YY	Available	95.00	94.00	94.50	96.00	96.50	95.50	95.00		
Hanwa	Available	95.50	94.50	94.75	95.50	97.25	96.00	96.75		
		Engineeri	ng Mate	<u>rial</u>						
Poly Styrene:P.	S.	Ahmadabad	<u>Mumbai</u>	<u>Delhi</u>	Bengaluru	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>		
GPPS	Available	100.00	98.50	99.50	101.00	101.75	100.00	101.50		
HIPS	Available	103.00	101.00	102.00	103.50	104.25	102.50	103.00		
A.B.S		Ahmadabad	<u>Mumbai</u>	<u>Delhi</u>	Bengaluru	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>		
920 (Ineos)	Available	123.00	121.00	122.00	123.75	124.25	122.25	123.50		
700 Colour ABS	Available	139.00	137.00	138.00	139.75	140.25	138.25	139.00		
<u>P E T</u>		Ahmadabad	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>		
PET	Available	94.50	93.50	94.50	95.75	96.25	95.00	95.50		
Engineering Mate	<u>rial</u>	Ahmadabad	Mumbai	<u>Delhi</u>	Bengaluru	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>		
Nylon 6 (GSFC)	Most Short supply	213.00	211.75	212.75	214.50	215.00	213.00	214.25		
Nylon 6 6 (Solvey)	Most Short supply	384.00	382.75	383.00	385.50	386.00	384.00	384.50		
Nylon GF 30% (Domo)	Available	161.00	159.75	160.00	162.50	163.00	161.00	161.50		
Delrin	Available	133.00	131.75	133.25	134.50	135.00	133.00	134.75		
Plain PBT	Available	144.00	142.75	143.00	145.50	146.00	144.00	144.50		
Poly Carbonate-PC		<u>Ahmadabad</u>	<u>Mumbai</u>	<u>Delhi</u>	<u>Bengaluru</u>	<u>Chennai</u>	<u>Indore</u>	<u>Kolkata</u>		
2407 General Purpose	Available	173.00	171.75	172.75	174.50	175.00	173.25	174.25		
PC 1220	Available	166.00	164.75	165.00	167.50	168.00	166.25	165.50		
S.A.N	Available	120.00	118.75	120.75	121.50	122.00	120.25	122.25		
EVA 18%:	Available	116.00	115.50	114.50	117.50	117.50	117.50	115.50		

PERFECTION

is not a skill

it's a Compulsion



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