



Plastic Tomorrow

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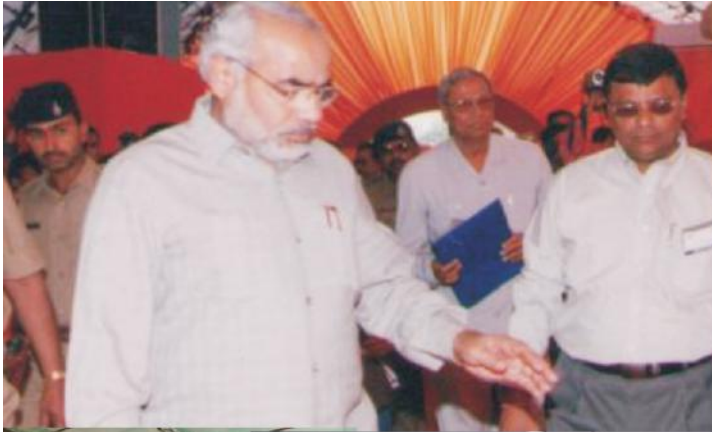
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- The Exhibition is strategically divided in **four** major segments :
 - **Segment I** : Engineering, Machinery, Machine Tools, Material Handling, Plastics & Rubber and Automobiles.
 - **Segment II** : Electrical, Electronics, Instrumentation & Automation.
 - **Segment III** : ,Green & Clean Environment Technology
 - **Segment IV** : Building Construction & Infrastructure, Tourism, Banking, Insurance, IT & Tele Communication.
 - **Segment V** : International Participants Pavilion
- **Catalogue Show** of MSMEs and International Participants.
- **Vendor Development Information Centre** sponsored by **Ministry of MSME Govt. Of India** will provide an opportunity to promote ancillary industries of SMEs for the requirements of Govt. and private organised sector.
- **Knowledge Conclave : Seminars & Conferences** on wide ranging relevant subjects pertinent to business and industry, addressed by eminent experts for the benefit of entrepreneurs looking for new strengths for managing their business.
- **Fresher's Spot Placement Fair** will be organised with the involvement of HR Managers of all important MNCs, Large Corporates, and up and coming SMEs for spot placement/internship.
- **NRG / NRI Sammelan (Meet)**: We have planned to host NRG/NRI sammelan under auspices of NRG Foundation with the support of Tourism Ministry.
- **Over 5 lac visitors** expected during **5 days** of the Mega Show.



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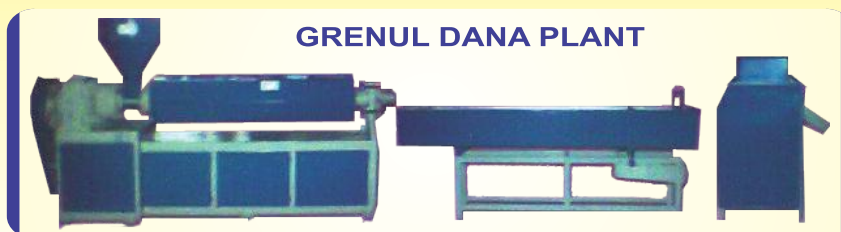
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Top Regional Players Throw Their Weight behind Plastivision Arabia

Frankfurt, 18th March, 2014: With the UAE becoming a leading source for petrochemicals and plastics, key regional players are making a beeline to lend their support to a major industry event in Sharjah. As India is focusing on exports to Middle East and Africa most of the big player will be targeting Plastivision Arabia 2014 as a major event for future to get more export business says Mr. Jayesh Rambhia, Chairman of PVA, he further added we are having some special schemes for SME and MSME's.

Six of the region's petrochemical giants have confirmed their sponsorship of the Plastivision Arabia trade fair and the concurrent International Conference for Plastics Conversion -GPCA -PlastiCon 2014, which are scheduled to be held at Expo Centre Sharjah from April 7 to 10, 2014

They include UAE's Borouge, Qatar Chemical and Petrochemical Marketing and Distribution Company (Muntajat), and Saudi Arabia's Sahara Petrochemical, Saudi International Petrochemical Company's (Sipchem), National Industrialization Company (TASNEE), and Saudi Basic Industries Corp (SABIC).

"The biennial Plastivision Arabia had one of the best launches for any show in the region in 2012 – it registered a record number of pre-registered visitors, excellent exhibitor response and good visitor turnout. This grand success was courtesy the emergence of the Middle East region as a key player in the global petrochemicals and plastics industry," said Mr Saif Mohammed Al Midfa, CEO, Expo Centre Sharjah.

"The rise in the number of sponsors from just one for the launch in 2012 to about six (and growing) for the second Plastivision Arabia shows the impact the event has made with just one edition. Borouge was the Platinum Sponsor in 2012, while we already have six,

including Borouge, for this year," Mr Midfa added.

The addition of the International Conference for Plastics Conversion (PlastiCon 2014) to Plastivision Arabia in association with industry body Gulf Petrochemicals and Chemicals Association (GPCA) has also played a key role in attracting leading establishments to support the event.

"By focusing on the growth of plastics conversion both globally and in GCC countries and highlighting the key role of innovation in market and product development, the fifth GPCA PlastiCon will be a significant event for the regional industry and add great value to Plastivision Arabia," said Dr Abdulwahab Al-Sadoun, Secretary General, GPCA.

GPCA PlastiCon 2014 will also feature a Gala Dinner showcasing the GPCA Plastics Excellence Awards, which will recognise companies, individuals, academics or students who have displayed excellence in plastic conversion innovation.

PlastiCon has received confirmations by Mr Willem De Vos, CEO, Society of Plastics Engineers; Mr Mohammed A. Alazzaz, Director Value Parks, Sadara Chemical Company; Dr Klaus Hecker, Managing Director, OE-A Organic Printed Electronics Association; and Hery Randrianantoandro, Healthcare Segment Leader, Sabic; as keynote speakers.

These premier industry events come at a time when GCC's petrochemical exports are expected to hit a record high this year with the WTO Bali Package set to come into effect. The agreement will make it easier to trade with the developed world, which can lead to a surge in exports from the GCC that stood at 172mn cubic metres in 2012, equivalent to 75 per cent of its output and valued at US\$52.7 billion, according to

latest reports.

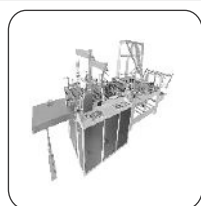
According to the Ministry of Foreign Trade, exports of plastics from the UAE grew by 127 per cent (US\$2.2 billion) from H1 2011 to H1 2012, eight times larger than the growth rate achieved during the whole of 2011.

Plastivision Arabia is organised in association with the All India Plastics Manufacturers' Association (AIPMA), the oldest and the largest apex body of the plastics industry in India. As in the past edition, the tie-up with AIPMA will facilitate impressive participation from India, while the show has already received good bookings from Taiwan, China, Iran, Turkey, Portugal, Pakistan, UK and Sweden, among others.

Visitors can expect to see plastic raw material, plastic packaging machinery & technology, equipment & services, primary processing and auxiliary equipments, equipment for pre-processing recycling, post-processing machines, machinery and plant for finishing, decorating, printing, marking & ancillary equipment.

About Plastivision Arabia 2014: Plastivision Arabia 2014 will be organized by Expo Centre Sharjah, in association with All India Plastics Manufacturers Association, and the support of the Sharjah Chamber of Commerce and Industry. It will be held at Expo Centre Sharjah from April 7 to 10, 2014, and will feature Consultants' Clinic, Placement Pavilion, Business Opportunity Pavilion, Product Design & Innovation Pavilion and a Green Pavilion. Plastivision Arabia will display raw materials and machinery for key segments such as plastic processing, injection molding, thermoforming, packaging, industrial users, construction, infrastructure, automobile and telecommunication, among others.

Courtesy



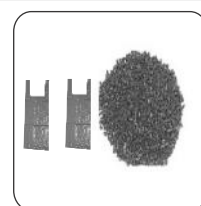
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Industry Giants Prefer SatyaSai Moulds for Their Oil Packaging Solutions

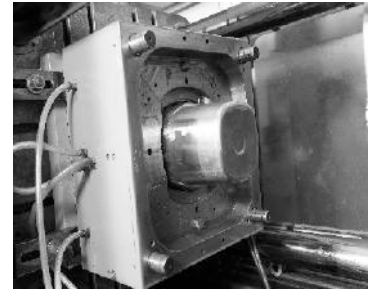
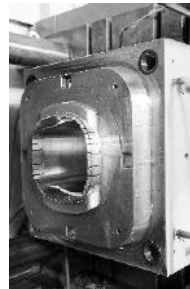
SatyaSai Mould delivered its new moulds to Industry Oil Giants for their new Packaging solutions. SatyaSai manufactured their entire range of packaging mould for oil containers in 500 ml to 20 liters moulds. The best part of SatyaSai is they have the entire range of technology to support the Innovate, Design, suggest and Manufacturing entire range of packaging as per customers requirement.

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The newly developed moulds will be very helpful for the packaging solutions and will also fulfill the solution for advance packaging. The key benefits of using this mould are attractive packaging, low weight, durability and cost effective. Mr. Bhalchandra Kabale, General Manager of SatyaSai commented that this moulds will be using very lower cycle times compared to others and it will run for a

longer life. He further added that SatyaSai has received some good orders for the packaging solutions recently.

SatyaSai is creating new dimension in Mould Making, Packaging and Plastics industry focusing on technology based manufacturing for future industry development.



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Indian Tooling Industry Expect To Reach 260 Billion By 2015

Tool and Gauge Manufacturers Association - India (TAGMA-India) announces the next DIEMOULD INDIA 2014, the 9th Biennial Die & Mould International Exhibition from April 17-20, 2014 in Mumbai, India.

The series of DIEMOULD exhibitions "A Trend Setter" organised by TAGMA since 1998 has build growing global awareness and reputation as the only trade fair in India for the Die & Mould Industry and very large by international standards of various Die Mould Exhibitions held globally.

The 9th Die Mould India exhibition spread over 20000 sqmtrs would provide all businesses related to the tooling industry an ideal and prestigious opportunity to display and market their products and services. In today's fast growing die mould sector this is a "must participate exhibition" necessary for improving branding and growing sales on an interactive platform in centrally cooled halls, with all supportive infrastructure, in the proximity of Mumbai airport and having the best worldwide connectivity by air, road, rail and sea. The expected visitor footfall is 30000 plus.

Exhibitors range includes Dies & Moulds, Press Tools, Mould base & standard parts of Dies & Moulds, Hot Runner System, Tool Steel, Heat Treatment, Texturizing, Gauges, CAD/CAM system related to Dies & Moulds, Die Spotting, Digitizing, Additive Manufacturing / 3D Printing, Rapid Prototyping & Modeling, Machine Tools for Dies & Moulds, CNC Milling/Machining Centre, E.D.M, etc., Moulding machine/ Die Casting machine, Accessories for Machine Tools, Die/moulding polishing machines, Cutting Tools, Measuring Machines, All materials, equipments, accessories & services covering Die & Mould industry.

Visitor Profile includes Auto, Plastic products, Electricals, Consumer Durables, Electronics, Auto Ancillary, Special Steels and Engineering. With the regular participation of leading brands from India and abroad showcasing their latest proven technologies, incorporating features to improve productivity, quality and reduce costs, attracting quality visitors like CEOs, Consultants, Decision

Makers to the exhibition. They expressed satisfaction finding solutions to their needs seeing new innovative products, manufacturing process, covering the entire supply chain to the tooling industry, thereby providing a wide spectrum to choose from in meeting challenging faster deliveries demanded by customers of the highly competitive manufacturing sectors.

The periodic survey "The Indian Tooling Industry conducted in 2011, shows that the industry market size in 2011-12 was Rs. 17000 crores with imports accounting to 35%. Current Estimated growth is 15%.

Mr. Ginu Joseph, Editor in Chief of Modern Plastics India and Injection Moulding World said that Indian Tooling Industry is growing and expect to reach 260 billion by 2015, he emphasised that the tooling industry is growing because of automotive and packaging industry growth.

Mr Bhaskar Kanchan of TAGMA India said that the previous edition of Die & Mould Exhibition held in Mumbai was highly successful with a steady growth, of over 23% in number of exhibitor, 20% in visitors and 17% in exhibition area, highlight being two Country Pavilions from China and Germany, the event also attracted exhibitors, delegations and visitors from over 25 countries worldwide.

About TAGMA:

TAGMA India established in 1990 serves as a forum for the Indian Tool Room & Die and Mould Industry whose activity involves design, sales or manufacture of dies for pressing, stamping, punching and forming; injection and compression moulds; die casting dies; patterns and pattern equipment; jigs and fixtures; standard tooling components; CAD/CAM; rapid prototyping; gauges; precision machining; special machines and related products.

For More Details :-

www.diemouldindia.org

Plastivision Arabia 2014 All Set To Open Big



Mr. Jayesh Rambhia PVA

Plastivision Arabia 2014 (PVA 2014) Eyes Big, after the grand success of Plastivision India with 110,000 visitors across the world, The All India Plastics Manufacturers Association is now focusing on Exports for the Indian Plastics Industry. After the impressive launch of Plastivision Arabia in 2012, the second edition of Plastivision Arabia will be held from 7th

to 10th April 2014, at Expo Centre Sharjah in association with the All India Plastics Manufacturers' Association (AIPMA), the oldest and the largest apex body of the plastics industry in India.

Plastivision Arabia 2014 has generated tremendous interest due to the combination of the World Expo in 2020 and the FIFA World Cup in 2022 – that too in quick succession -- is set to provide considerable momentum to regional plastics players, who are expecting demand to swell in the run up to these events. While Dubai is set to spend over US\$18 billion for the World Expo 2020, Qatar has earmarked a staggering US\$200 billion for the FIFA World Cup in 2022, which could propel plastics usage much over a conservative estimate of nearly 6 metric tons, said Mr. Jayesh Rambhia, Past President, AIPMA and Chairman of PLASTIVISION ARABIA2014. Mr. Rambhia further added "Combine this with economies that are cruising in the fast lane, the region's plastics producers will have to look at acquiring new machinery and technology to keep pace with the expected heavy surge in consumption of plastics.

Besides, in association with industry body Gulf Petrochemicals and Chemicals Association (GPCA), will play host to the fifth International Conference for Plastics Conversion (PlastiCon 2014) alongside

Plastivision Arabia. "Titled 'Exploring Growth through Innovation in the Plastic Conversion Industry', PlastiCon 2014 will focus on the role of innovation in developing new plastic products and opening up new markets in plastic conversion," said Dr Abdulwahab Al-Sadoun, Secretary General, GPCA. The inaugural Print Pack Arabia exhibition and conference will also be held alongside Plastivision Arabia, and will feature latest printing & packaging technology, materials and machinery. The second Arabia Mold too will be held alongside Plastivision Arabia, in association with DEMAT, the organizer of world-renowned EuroMold, the world's leading fair for mold-making & tooling, design and application development.

Speaking ahead of the upcoming Plastivision Arabia 2014 trade fair, Mr. Saif Mohammed Al Midfa, CEO of Expo Centre Sharjah, said; these mega events are going to have tremendous impact on the region's plastics producers. Plastic products are heavily used in infrastructure projects, apart from packaging." Apart from infrastructure projects, millions are going to fly into the region, providing a strong boost to plastics consumption. Together, these events form a comprehensive sourcing as well as networking platform for the entire regional print, packaging, plastics and mold-making industry.

About Plastivision Arabia 2014 :

Plastivision Arabia 2014 will be organized by Expo Centre Sharjah, in association with All India Plastics Manufacturers Association, and the support of the Sharjah Chamber of Commerce and Industry. It will be held at Expo Centre Sharjah from April 7 to 10, 2014, and will feature Consultants' Clinic, Placement Pavilion, Business Opportunity Pavilion, Product Design & Innovation Pavilion and a Green Pavilion. Plastivision Arabia will display raw materials and machinery for key segments such as plastic processing, injection molding, thermoforming, packaging, industrial users, construction, infrastructure, automobile and telecommunication, among others.

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PlasticTomorrow

Published & Printed by
DINESH J SHAH

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Commercial Plastics to handle recycling at NPE 2015



produced by **spi**

One plastics recycling company is going to be quite busy come next March in Florida.

Commercial Plastics Recycling Inc. has been named the official recycling company for the NPE 2015 international plastics exposition next year in Orlando, Fla. Appointed by The Society of the Plastics Industry Inc. trade group, which organizes

the show, Commercial Plastics Recycling will collect and sort scrap from equipment operated by exhibitors participating in the NPE Recycles program.

The plastics will be sent to the company's headquarters in Tampa, less than 70 miles from the Orange County Convention Center where the show will take place, SPI said.

"We will remove all of the processing scrap generated by participating exhibitors, from booth setup to the end of the show, and do so with minimal cost to these companies," said Paul Benvenuti, who is responsible for purchasing and sales at Commercial Plastics Recycling, in a statement.

"To that end we will work directly with exhibitors to schedule our services, provide more packaging than in the past to facilitate collection and provide more support staff on the show floor," he said.

Because SPI has a zero-waste policy for the show, exhibitors not using the NPE Recycles program must have their scrap delivered to the convention center's loading dock for off-site sorting, the trade association said.

The NPE Recycles program handled 260,208 pounds of material in 2012, according Lori Campbell, SPI's director of trade show operations. Even more is expected next year.

"Based on the number and sizes of booths taken at last month's Space Draw, there will be larger exhibits at NPE2015 and more equipment operating on the show floor," she said, in a statement.

More than 300 exhibitors already have said they will be running machinery at the show, Campbell said.

Courtesy



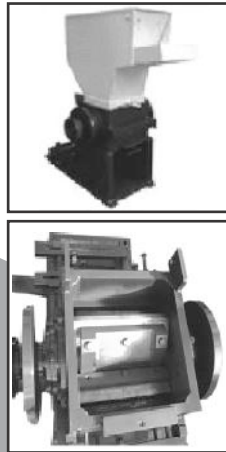
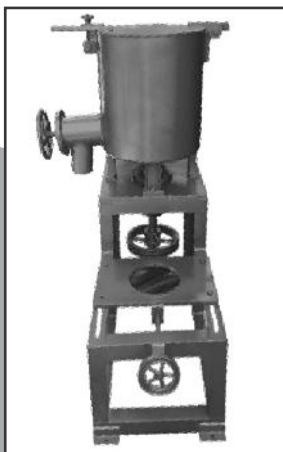
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Plastics, Safety And The Media



Mother Jones tackled the topic of plastics and chemical safety last week with a 6,000+-word-story headlined “The Scary New Evidence on BPA-Free Plastics ... And the Big Tobacco-style campaign to bury it.”

The story was extensively researched and footnoted, although I would quibble with calling the evidence “new” in the headline.

The story focuses on George Bittner’s research on the estrogenic activity of various plastics. I’m sure that many Mother Jones readers aren’t aware of his studies, but they’ve been around for a few years. The New York Times covered the topic in 2011, and National Public Radio in 2012.

In fact, the Milwaukee Journal Sentinel blazed this trail back in 2008 with its “Chemical fallout” report, which I wrote about at the time.

All interesting reading, and essential information for plastics industry managers.

Why? Because Bittner claims that tests show that many types of common plastics — not just polycarbonate and epoxy, which use bisphenol A as a feedstock — have tested for estrogenic activity. If he’s right, that opens the door to lots more questions: Are the levels of EA high enough to be concerned about? Are plastics safe? Are plastics companies that market certain materials as BPA-free selling products that are actually safer?

Mother Jones points out that Bittner has a stake in all of those questions. He founded an Austin, Texas-based company called Plastipure Inc., which markets plastics that it claims are

“significantly safer materials, free of all estrogenic activity.”

The story also covers the fact that Eastman Chemical Co. won a federal lawsuit last year against Plastipure. A jury heard Bittner’s claims, but ruled that Plastipure had made misleading statements about Tritan, the resin that Eastman markets as a BPA-free alternative.

Despite the outcome of the case, the Mother Jones story relies extensively on evidence related to the trial. Reporter Mariah Blake took a deep dive into the reports and testimony, and draws a number of conclusions that aren’t favorable to the plastics industry. But you got that already, with the headline that compared the plastics industry to “Big Tobacco.” That’s not a comparison that anyone in the plastic industry likes to see.

So why is Mother Jones now covering the story about estrogenic activity of plastics, focusing on some studies that aren’t new — and building the case using evidence from a trial that ended seven months ago with a victory by the “Big Chemical” industry?

Blake sums it up here, in a section of the story that explains that Eastman has “launched a PR blitz” assuring the public of Tritan’s safety:

“Eastman’s offensive is just the latest in a wide-ranging industry campaign to cast doubt on the potential dangers of plastics in food containers, packaging, and toys — a campaign that closely resembles the methods Big Tobacco used to stifle scientific evidence about the dangers of smoking.”

These sorts of stories tend to generate a lot of me-too coverage from other news site and blogs. Within a few days of Mother Jones posting its story, there were dozens of stories online with headlines like “Are BPA-Free Plastics Any Safer?” and “Some BPA-free plastic is actually worse for you than normal plastic.”

Of course most of those other reports didn’t include any of the necessary context: That this story wasn’t generated by a new study, that both sides (Bittner and Eastman) have a financial stake in the debate, and that a jury — after hearing most of both sides’ case a year ago — ruled against Bittner.

So this is a reminder that despite winning a battle in the war over plastics and chemical safety, the plastics industry shouldn’t expect the war to be over. This is a debate that has raged for decades, and it’s not going to end anytime soon.

Loepp is editor of Plastics News and author of “The Plastics Blog.”

Courtesy

Plastics Building & Construction Market Review and Outlook 2014 with MS Excel chart data

This report provides in-depth analysis of the plastic building and construction market for North America, including discussions of trends, opportunities, threats and the latest developments in construction trends that impact plastics processors.

Charts and graphs show forecasts of HDPE and PVC sales into construction, GDP growth, retail sales trends, historical housing trends, housing starts, housing supply and value of construction.

The report reviews 25 processors and six major retailers serving the building and construction end market, assessing their business strategies, challenges and manufacturing outlook.

There are also interviews with four industry thought leaders who are looking at the business prospects ahead.

Courtesy

STUDY : PLASTIC PACKAGING ENABLES SIGNIFICANT ENERGY AND GREENHOUSE GAS SAVINGS IN U.S., CANADA

A new study has determined that six major categories of plastic packaging help to significantly reduce energy use and greenhouse gas emissions compared to packaging alternatives made with other materials. The study, "Impact of Plastics Packaging on Life Cycle Energy Consumption & Greenhouse Gas Emissions in the United States and Canada," provides a transparent, detailed life cycle assessment that quantifies the energy and climate benefits of using various types of everyday plastic packaging compared to alternatives.

Prepared by Franklin Associates for the American Chemistry Council (ACC) and the Canadian Plastics Industry Association, the study assessed the energy requirements and greenhouse gas emissions of six general categories of plastic packaging produced and sold in the United States and Canada. These include caps and closures, beverage containers, other rigid containers, carrier (or shopping) bags, stretch/shrink wrap, and other flexible packaging.

"Plastic packaging enables the safe and efficient delivery of various products which form part of our daily lives, everything from food to essential health and safety aids. However, many are unaware that plastics carry out these functions while at the same time conserving energy and lowering greenhouse gas emissions. This study clearly articulates these benefits to sustainability," notes Carol Hochu, President & CEO of the Canadian Plastics Industry Association.

Study authors used life cycle assessment (LCA) methodology to compare current amounts of various plastic packaging products to packaging made with alternative materials. The findings were striking.

The assessment found that for the baseline year 2010, replacing all plastic packaging with non-plastic alternatives for these six types of packaging in Canada would:

-- require almost 4.4 times as much packaging material by weight, increasing the amount of packaging used in Canada by nearly 5.5

million tonnes or 5.5 billion kilograms;

-- increase energy use by 2.0 times -- equivalent to the amount of oil transported by 18 supertankers; and

-- result in 2.3 times more global warming potential -- equivalent to adding 3.3 million more cars to our roads.

Similar calculations are available for the U.S. market.

"Plastics packaging is highly engineered enabling innovation in performance and reductions in material use resulting in enormous sustainability benefits throughout the entire life cycle, as this study shows. After use, plastics make further contributions to sustainability by being re-purposed through recycling or recovered for its energy value and converted into a liquid oil, electricity and into other fuels". Great progress has been made. Over 70% of Canada's population has the opportunity to recycle all their plastic bottles; over 50% can recycle non-bottle containers; and, 60% can recycle polyethylene plastic film and bags. CPIA will continue its work with partners to expand on recovery efforts to realize greater savings, says Cathy Cirko, VP of the CPIA.

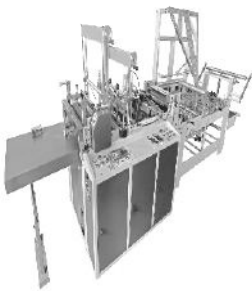
The study contains more than 50 tables and 16 charts and illustrations, and it examines each of the major life cycle stages for packaging: raw material production, packaging fabrication, distribution transport, postconsumer disposal, and recycling.

The report is available in its entirety here.

Data Chart : Plastic Packaging Reduces Mass, Energy Use & GHG Emissions available here.

The Canadian Plastics Industry Association is the national voice of Canada's plastics industry, representing the interests of processors, material suppliers, equipment manufacturers and brand owners across the country.

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Plastindia 2015 Will Help Food Packaging Industry to Bring Substantial Growth By 2016

PLASTINDIA 2015
EXPANDING HORIZONS
9th International Plastics Exhibition & Conference
Feb. 5-10, 2015; Pragati Maidan, New Delhi



India is envisaged to be one among the top ten packaging consumers by 2016 with the demand set to reach US \$24 billion. Food packaging is expected to be a major growth driver in the near future for polymer consumption as the retail sector flourishes.

Packaging accounts for 48% of all commodity polymer consumption and is growing at 15% annually, gargantuan by all standards. Key application areas include multilayer films, BOPP films, shrink & stretch wraps, thin wall moulding, thermoforming and blow moulded containers. Within packaging, food packaging comes a distinct first.

To achieve this growth, Plastindia Foundation is organizing the ninth edition of Plastindia 2015 from February 5-10, 2015 at Pragati Maidan, New Delhi. This international exhibition is supported by the Ministry of Chemicals and Fertilizers and will be one of the three largest shows in the plastics industry globally. With strong international participation Plastindia 2015, spread over 125,000 sq. meters of area, will have over 2000 exhibitors from over 40 countries and over 150,000 business visitors.

Joining hands with the Plastindia Foundation, the apex body of major associations, organizations and institutions, including Government & semi government organizations associated with plastics are major internationally acclaimed partners such as Messe Dusseldorf GmbH, Adsale Exhibition Services Ltd, Pilatus International Co Ltd and supported by EUROMAP – The European Plastics and Rubber Manufacturers Association, the British Plastics Federation, . The Foundation's main objective is to promote the development and growth of the Indian Plastics Industry in India and is dedicated to national progress through plastics.

Mr Subhash Kadakia, President of Plastindia Foundation said, "The exciting developments of the recent past, ranging from the Wiintech cluster initiative, to the push for TUF's implementation and the unprecedented show of strength at K 2013 gives me immense confidence in the future of Indian plastics. The 9th edition of this event will be bigger, better and aspire to achieving much greater ambitions. Exchange in Abundance – Expanding Horizons. This is the biggest business platform for our industry and I invite you to join us in our continued quest towards becoming responsible global leaders in plastics.

Focusing on the increased use of plastics in the healthy and safe packaging of food, Mr. Prabuddha Dasgupta one of the most respectable packaging professional said that, "In the current business environment, the key areas of growth are agriculture, retail, food processing, medicines and plastic packaging plays a vital role in ensuring quality products reach the consumer. Plastics are perhaps the most versatile group of materials used in packaging. However, in international markets or at duty free shops overseas and in India as well, Indian packaged food is very difficult to find on shelves; the primary reason being, lack of high quality of packaging solutions. With the increased use of technology which has provided high quality and safe plastic for various applications in the Indian food industry, the industry will become more competitive and will gain cost

effectiveness. PLASTINDIA 2015 will make this happen and be the gateway to skyrocket such opportunities".

In his views on the latest edition, Mr M. Maheshwar Rao, IAS, Commissioner for Industrial Development & Director of Industries & Commerce - Department of Industries & Commerce - Government of Karnataka, said that "Backed by a huge workforce of economical yet skilled manpower; a high emphasis on quality as well as value for money; and a favourable regulatory environment, India's plastic processing sector is surging. The industry has surplus processing capability to cater to more business and is constantly upgrading itself on technology and automisation front to keep pace with the developed nations. India - the globe's most lucrative business destination is growing bigger by the day. Plastics - as the key material for man's progress today - will be a key beneficiary of this tremendous growth surge. PLASTINDIA 2015 will be the gateway to this profusion of unlimited possibilities as India is poised to become the next global hub for plastics. All in all, PLASTINDIA 2015 promises opportunities for growth and success to anyone associated with or willing to associate with the wonderful world of plastics".

Mr. Rao further added that, "Inline with the policies of Government of India, Government of Karnataka is establishing two Plastic parks - one in Bangalore and one in Dharwad. I extend herewith my best wishes to all participants be it Exhibitors, Visitors & the organizers for the grand success of the mega event - Plastindia 2015".

Elaborating this view, Mr J.R. Shah, Chairman National Executive Council, Plastindia Foundation, said, "With rising demand for innovative solution in food packaging in India, the multibillion plastic packaging industry is scaling new heights. However, in order to become more competitive in global markets, Indian food packaging industry heavily relies on plastic applications in food industry. With the main objective of Plastindia Foundation being the promotion, development and growth of the Indian Plastics Industry in India, we have initiated steps to be the driving force for the MSME's by facilitation, counseling and advising them on the processes and steps to avail of the Technology Upgradation Fund offered by the Government of India". He continued by stating, "This will be an eye-opener to many and emphasize India's position as the world's sourcing hub for plastics finished products".

The six-day mega event, Plastindia 2015 will bring under one roof major global and Indian Plastics Industry innovators. The exhibition and conference will reveal the cutting edge technological developments, equipments and products. Plastindia 2015 takes further the innovations from the earlier version, in that; it will concurrently host Proplast 2015 and an International Conference to draw the attention of the entire business fraternity. Plastindia 2015 will be the 9th edition in the National Capital at the same venue with a lot of innovations, improvements and facilities. Eminent academicians, consultants, professionals, technocrats, research scientists and industry experts will participate and share their views during various seminars.

The previous exhibitions organized by the Plastindia Foundation, have already established India as a desired destination to the global plastics industry players as well as depicting the eagerness of Indian entrepreneurs to absorb and deliver to the growing market demands. Every exhibition organized by the Plastindia Foundation have bettered the previous one and grown to become a much sought after event, both nationally and internationally.

Key attractions for this exhibition :

- 24th ASEAN Plastics Forum
- Proplast 2015 - finished goods section, This will showcase the forays made by the Indian processed plastics sector.
- PLASTICON Awards to encourage and recognize innovation and growth in all facets of Indian Plastic Industry and to honor significant contribution made by Indian business enterprises, Institutions, NGOs and individuals who have excelled in their endeavor.

Wiintech – Worldwide Intercluster Initiative for New Materials and processes focused on Clean Technology – The European Gateway to develop business and technology opportunities.

About PI 2015

The six-day mega event, PI 2015 will bring under one roof major global and Indian Plastics Industry innovators. The exhibition and conference will reveal the cutting edge technological developments, equipments and products. Joining hands with the Plastindia Foundation, the apex body of major associations, organizations and institutions, including Government & semi government organizations associated with plastics, are major internationally acclaimed partners such as Messe Dusseldorf GmbH, Adsale Exhibition Services Ltd., Pilatus International Co. Ltd and supported by EUROMAP – The European Plastics and Rubber Manufacturers Association.

The previous PI exhibitions have established India as a desired destination to the global plastics industry players as well as depicting the eagerness of Indian entrepreneurs to absorb and deliver to the growing market demands. Every edition of Plastindia exhibition has

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About Plastindia Foundation :

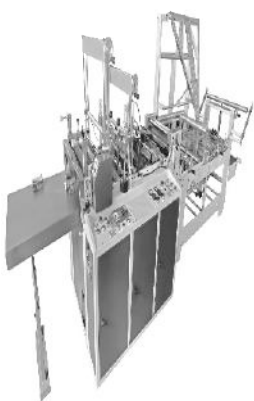
Plastindia Foundation is the apex body of major Associations, Organisations, and Institutions connected with plastics including Government and Semi-Government Organisations. The main objective of the Foundation is to promote the development of Indian plastics industry and to assist the growth of plastics and related materials and their products. It is dedicated to the national progress through plastics and is striving hard to make India a preferred sourcing base for plastics products for the world. Working as a catalyst, the Foundation works to build awareness of the significant contribution made by plastics to society and the environment. It also creates a positive policy framework with all statutory entities and increases per capita consumption of plastics, encourage exports thereby significantly contributing to national growth. In order to enhance the image and the growth of Indian Plastics Industry, the Foundation holds world-class exhibitions in India at regular intervals, where it provides opportunities to demonstrate the industry's capabilities.



For more details visit:

www.plastindia.org

www.plastindiafoundation.org



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The Biggest Business Opportunities for the Plastics Industry- PlastIndia 2015 Opens its Doors

PlastIndia Foundation formally announced PlastIndia 2015 (PI 2015) Exhibition from 5-10 February 2015 to be held at Pragati Maidan, New Delhi with the rousing tagline of 'Expanding Horizons'. The ninth edition of the exhibition was unveiled at an inaugural function attended by stalwarts of the industry.

PlastIndia 2015, which is slated to be the top three international platforms for the Plastics Industry, was formally launched by Mr. Avinash Joshi, IAS, Joint Secretary - Petrochemicals Division, Department of Chemicals & Petrochemicals, Ministry of Chemical and Fertilizers - Government of India in the presence of the Guest of Honor, Mr. Nirmal Thakkar, first President of PlastIndia Foundation (PIF) and Chairman of Tipco Industries. Dignitaries on the dais included Mr. Subhash Kadakia, President PIF, Mr. J.R. Shah, Chairman, National Executive Council (NEC), Mr. L. K. Singh, Co-Chairman, NEC, Mr. Rajeev Chitalia, Vice President PIF and Mr. Rajiv Raval, Honorable Treasurer, PIF.

PI 2015 is targeted to be the largest till date and expected to consolidate its position as one of the world's largest 'plastics only' exhibitions. Expected to bring together about 150,000 business visitors and 2000 top class exhibitors from across 40 nations at a showcase extending across 125,000 sq. mts, this will truly be a remarkable platform and opportunity for the plastics industry. A stunning bouquet of associated offerings will make PI 2015 a 'must not miss' affair for global plastics fraternity.

Mr. Vijay Merchant hosted the official launch function, where he addressed and assured the august gathering that PI 2015 will be even bigger and better. PI 2015 was officially launched with the auspicious lighting of the lamp by all the dignitaries on the dais. Mr. Rajiv Raval welcomed all the distinguished guest and dignitaries. Describing PI 2015 as the largest single business opportunity of 2015, Mr. Subhash Kadakia said that the exhibition would significantly expand the business horizons of all those who participate, regardless of their origin and business size, due to the sheer volume of opportunity that it would showcase and the quantum of learning's that would be available to one and all. All in all, PI 2015 promises opportunities for growth and success to anyone associated with or willing to associate with the wonderful world of plastics.

Mr. Avinash Joshi, after unveiling the logo of PI 2015 said, "the Industry has unlimited potential to be a world leader if it continues to believe in itself as it has done so far. PI 2015 would bring in a lot of opportunity to the various stakeholders as it will be among the biggest in the world."

Mr. Sunil Jain of Rajoo Engineers delivered a message on behalf of Mr. Mahendra Patel, Chairman of the National Advisory Board (NAB) for PI 2015; stressing on the continuous endeavours and hard work put in towards the success of the exhibition for the last 25 years and readiness to work towards making PI 2015 a grand success.

Mr. J. R. Shah elaborated, "PlastIndia 2015 is expected to be the biggest than the previous editions' He also unveiled the events to be hosted concurrently- 4th Proplast, the finished/processed plastics products exhibition that will demonstrate the ever enhancing global standard capabilities of India's plastics processing industry, 9th International Conference on Plastics, 24th ASEAN Plastics Forum, 6th Plasticon Awards, the Wiintech Technology Transfer initiative as well as numerous B2B meets on investment, finance, knowledge sharing etc.

Mr. Nirmal Thakkar mesmerized the audience with his captivating speech as he reminisced the hurdles faced by the Indian plastic industry in the 1980's, even as he noted that the current scenario has changed, along with priorities. He further added that today's entrepreneurs have unlimited opportunities to conduct business. He appreciated the interest infused and innovations introduced by the younger generation. Mr. Rajeev Chitalia honored Mr. Thakkar with a memento. Finally the vote of thanks was given by Mr. L. K. Singh, as he updated the audience of commencement of booth space booking that met with confirmed bookings on Day 1.

About PI 2015

The six-day mega event, PI 2015 will bring under one roof major global and Indian Plastics Industry innovators. The exhibition and conference will reveal the cutting edge technological developments, equipments and products. Joining hands with the PlastIndia Foundation, the apex body of major associations, organizations and institutions, including Government & semi government organizations associated with plastics, are major internationally acclaimed partners such as Messe Dusseldorf GmbH, Adsale Exhibition Services Ltd., Pilatus International Co. Ltd and supported



Lamp lighting Ceremony by From Left to right, Mr. Subhash Kadakia, President, PlastIndia Foundation; Mr. Rajeev Chitalia - Vice President, Mr. J. R. Shah - Chairman, National Executive Council, PlastIndia Foundation; Mr. Avinash Joshi, IAS, Joint Secretary - Petrochemicals Division, Department of Chemicals & Petrochemicals, Ministry of Chemical and Fertilizers - Government of India; Mr. L. K. Singh, Co-Chairman - National Executive Council, and Mr. Rajiv Raval, Honorable Treasurer; Mr. Nirmal Thakkar First President of PlastIndia Foundation and Chairman of TIPCO Industries.

by EUROMAP – The European Plastics and Rubber Manufacturers Association.

The previous PI exhibitions have established India as a desired destination to the global plastics industry players as well as depicting the eagerness of Indian entrepreneurs to absorb and deliver to the growing market demands. Every edition of Plastindia exhibition has bettered the previous one and grown to become a much sought after event, both nationally and internationally.

About PlastIndia Foundation :

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From Left to Right, Mr. Rajeev Chitalia - Vice President, PlastIndia Foundation; Mr. Subhash Kadakia, President, PlastIndia Foundation; Mr. Nirmal Thakkar First President of PlastIndia Foundation and Chairman of TPCO Industries; Mr. Avinash Joshi, IAS, Joint Secretary - Petrochemicals Division, Department of Chemicals & Petrochemicals, Ministry of Chemical and Fertilizers - Government of India; Mr. J.R. Shah - Chairman, National Executive Council, Mr. L. K. Singh, Co - Chairman - National Executive Council, and Mr. Rajiv Raval, Honorable Treasurer.

EXHIBITIONS DETAIL

PLASTVISION ARBIA - 2014	SHARJAH - UAE	APRIL 07 2014 - 08 2014 - APRIL 10 14 2014
CHINA PLAST	SHANGHAI INTERNATIONAL EXPO CENTER (PUNOG)	APRIL 23 2014 - 08 2014 - APRIL 26 14 2014
INTERPACK 2014	DUSSELDORF - GERMANY	MAY 08 2014 - MAY 14 2014
KENYA PLAST 2014	NAIROBI - KENYA	JUN 06 2014 - JUN 08 2014
PRINT FAIR 2014	HYDERABAD - INDIA	JUL 02 2014 - JUL 05 2014
IPLEX - 2014	HYDERABAD - INDIA	AUG 08 2014 - AUG 11 2014
SRI LANKA PLAST	COLOMBO - SRI LANKA	AUG 14 2014 - AUG 16 2014
INTERPLAS 2014		SEP 30 2014 - OCT 02 2014
PLAST SHOW	RAJKOT	NOVEMBER
VIBRANT VCCI - 2014	VADODARA	NOV 27 2014 - DEC 01 2014
NPE2015	ORLANDO - USA	MAR 23 2015 - MAR 27 2015
INDIA PLAST	GANDHINAGAR (GUJARAT.)	JAN 29 2015 - FEB 3RD -2015
PLAST INDIA	PRAGATI MAIDAN (DELHI)	FEB 05 2015 - FEB 10 2015



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HALF DAY SEMINAR ON " LATEST TRENDS IN PROCESSING MACHINES, AUTOMATION & CONTROL SYSTEMS " AT IPI VADODARA CHAPTER 15th MARCH 2014. AT HOTEL SURYA PALACE, VADODARA

Guest of the Seminar

- One of the biggest events held at Vadodara chapter
- Over 215 participants from across the region (Industry participants from Valsad to Ahmedabad)
- Dr. Prakash Trivedi, Immd. Past Chairman GC IPI, was the Chief Guest of the Seminar
- Mr. N K Balgi, Chairman GC, Unveiled the Vadodara Chapter Souvenir for 2012 – 14
- Four Technical papers
- Three Sponsors
- Announcement of New Vadodara Chapter Team for 2014-16
- Participation by Students of Last Year MS Polymer Technology from MSU & ISTAR
- This Seminar was one of the biggest event held at Vadodara Chapter with over 217 participants attended by Members, Invitees and industry players from far regions covering Valsad at one end and Ahmedabad at other.



Event was sponsored by :

- 1.) Windsor Industries Limited
- 2.) Selplast EAS Exports Pvt. Limited
- 3.) Mifa Systems Pvt. Ltd.



Technical Papers presented by

1. Dr. Prakash Trivedi : Plastics and Sustainability
 2. Mr. Vinay Bhasod, Windsor : Innovative Injection-Molding processing machines
 3. Mr. Himanshu Jani, Windsor: Technological advancements in Extrusion Equipments
 4. Mr. Theory Pastor : EAS Italy : Quick Mold change system and Automation during processing
 5. Mr. Abhay Upadhyaye : Mifa Systems : Control Systems and their crucial contribution to accuracy and cost saving
- The gathering was bestowed with Two senior most and respectable, Mr. N. K. Blagi. & Dr. Prakash Trivedi, who blessed the function.
 - Mr. Atul Kanuga, Sr. Vice President, IPI Presidents' Board, was acknowledged of his valued contribution to the revival of Vadodara Chapter and the same was appreciated by all for his efforts for chapter revival at Daman and Hyderabad.
 - Senior IPI Veterans of Vadodara Chapter : Mr. Madhubhai Shah and Mr. Malvikhbai Hathi were also present during the complete course of the seminar. They continue to be as much active in all chapter activities as they were in their younger days.
 - Mr. N K Balgi, unveiled the Vadodara Chapter Activity report souvenir for 2012-14, which was compiled by the chapter members.
 - Mr. D P Solanki, Incoming Chairman Vadodara Chapter expressed his Thanks in his Vote of thanks speech to one and all.

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ETA Vibro screen is versatile, reliable, economical and flexible equipment which is used in various industries like plastic, food, chemical, oil, engineering, agro, mineral paper etc

ETA Vibro Screens are used for Removing Dust, Chips & such Fine Impurities from Plastic Materials Specially in Injection Molding/Scrap Gridding Process. It can also be used for recovering good Granules from floor sweepings. ETA Vibro Screens are available in different models as per customer requirement.

ETA Vibro Screens are widely used in plastic industry. Other than Injection Molding/Gridding Waste, The machine is used to screen Reprocessed Granules, Polymer Powder, Extruded Granules Etc. and as Classifier For Master Batch/ Filler Compound.

ETA Vibro Screens are screening machine which are used for continuous separation process like screening, sifting, grading, classification, filtration, over size/ under size removal etc. using wire mesh or perforated sheet. It can work for solid-solid or solid-liquid/ slurry separation. The machine has vibratory motor.

ETA Vibro screen is versatile, reliable, economical and flexible equipment which is used in various industries like plastic, food, chemical, oil, engineering, agro, mineral paper etc.

Screeners For Injection Molding/Gridding Waste



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ETA Vibro Screens are used for Removing Dust, Chips & such Fine Impurities from Plastic Granules/Materials being Reprocessed or Recycled. It can also be used for recovering good Granules from Floor Sweepings. ETA Vibro Screens are available in different models as per customer requirement.

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ETA Vibro screen is Versatile, Reliable, Economical And Flexible equipment which is used invarious industries like plastic, food, chemical, oil, engineering, agro, mineral paper etc.

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ETA vibro screens are used to screen polymer powders like LLDPE, LDPE, HDPE, PVC, PP Etc.. Polymer powder is screened after pulverizing and before taking it to next process, to remove large chips, lumps and foreign material. Eta Vibro screens are also used for screening of powder material purchased from market to ensure raw material and product quality and also to reduce wastage/rejection.

ETA vibro screens are available in different models as per customer requirement. It is useful for industries like Roto molding, PVC, Lamination and Calendaring.

This machine is also used in reusing plant sweeping and removal of sand, foreign material etc. ETA Vibro Screens are widely used in plastic industry. Other than Polymer powder, ETA Vibro screens are used to screen Reprocessed granules, Extruded granules, Injection molding waste, Floor sweepings etc.

ETA Vibro Screens are screening machine which are used for continuous separation process like screening, sifting, grading, classification, filtration, over size/ under size removal etc. using wire mesh or perforated sheet. It can work for solid-solid or solid-liquid/ slurry separation. The machine works on an electric vibratory motor.

ETA Vibro screen is versatile, reliable, economical and flexible equipment which is used in various industries like plastic, food, chemical, oil, engineering, agro, mineral paper etc.

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વડોદરા ખાતે તા. ૦૮/૦૧/૨૦૧૪ ના રોજ મહારાષ્ટ્રી યીમનાભાઈ હાઈસ્કૂલ માં પ્લાસ્ટિક ના વપરાશથી પર્યાવરણને બચાવવા માટેનું માર્ગદર્શન આપવા બાબતે ઈન્ડિયન પ્લાસ્ટિક ઈન્સ્ટીટ્યુટ વડોદરા ચેપ્ટર દ્વારા કાર્યક્રમનું આયોજન કરવામાં આવેલ હતું તેમાં સ્કૂલના પ્રિન્સીપલ તથા વિદ્યાર્થીઓ મોટી સંખ્યામાં હાજર રહેલા તદઉપરાંત IPIના ચેરમેન શ્રી દિલીપભાઈ શાહ તથા શ્રી સોહમભાઈ મહેતા તેમજ પ્લાસ્ટિક પ્રોસેસર (ગુજરાત) એસોસિએશન વડોદરા ખાતે ના પ્રેસિડન્ટ શ્રી જયકાન્તભાઈ નાણાવટી તેમજ સભ્ય મદનભાઈ જૈન, રાકેશભાઈ અગ્રવાલ, ગોવીંદભાઈ, જીતુભાઈ વગેરે ઉપસ્થિત રહ્યા હતા તેઓ દ્વારા પ્લાસ્ટિક થી પર્યાવરણને થતા ફાયદાઓ વિશેની માહિતી પુરી પાડી હતી. તેમજ પ્લાસ્ટિક દ્વારા પર્યાવરણને કઈ રીતે મદદરૂપ થઈ શકાય તે માટે જાણકારી આપેલ હતી.



જીઆઇડીસી ખાતે નાના ઉદ્યોગકારો માટે ડિઝાઇન અવેરનેસ સેમીનાર યોજાયો



એમએસએમઇ દ્વારા મકરપુરા જીઆઇડીસી એસોસિએશન અને એનઆઇડીના સયુક્ત ઉપક્રમે ડિઝાઇન અવેરનેસ સેમીનારનું આયોજન કરવામાં આવ્યું હતું જીઆઇડીસી ખાતે આયોજીત સેમીનારમાં એમએસએમઇના અધિકારિ કિરતિભાઈ પરમાર અને એનઆઇડીના એક્સપર્ટ દ્વારા વિવિધ માહિતી અપાઈ હતી. કિરતિભાઈ પરમારે જણાવ્યું હતું કે નાના ઉદ્યોગકારો દ્વારા પોતાના પ્રોડક્ટમાટેની ડિઝાઇન મોટા ભાગે અન્ય પ્રોડક્ટમાં પરથી જ અન્ય પ્રોડક્ટ પરથી જ ઉઠાવવામાં આવતી હોય છે. પરંતુ તેની પ્રોતોત્પન્નમાંથી જ્યાર પ્રોડક્ટ બનાવવાનો વખત આવે છે, ત્યારે તેમાં ઘણી મુશ્કેલીઓ આવતી હોય છે. જેથી પ્રોડક્ટ ડિઝાઇન કરવા માટે તેના બેઝીક નિયમો પણ ધ્યાન રાખવું જરૂરી બને છે. એનઆઇડીના નિષ્ણાંતોએ જણાવ્યું હતું કે, કોઈ પણ પ્રોડક્ટની ડિઝાઇનનની સુંદરતા સાથે તેની ગુણવત્તા અને તેના ફિચર્સ પણ તેટલા જ જરૂરી હોય છે.

વડોદરા : કેન્દ્ર સરકારના એમએસએમઇ વલ્લિગ દ્વારા નાના ઉદ્યોગકારોને પ્રોત્સાહિત કરવા માટે ખાસ નવી સ્કીમો શરૂ કરવામાં આવી છે. જે અંતર્ગત તમામ રાજ્યોમાં નાના ઉદ્યોગકારો માટે વિવિધ સેમીનાર અને વર્કશોપનું પણ આયોજન કરવામાં આવી રહ્યું છે. સામાન્ય રીતે લાજ સ્લેબ કંપનીઓ પોતાની પ્રોડક્ટમાં નવા નવા ફેરફાર કરી સ્પર્ધામાં આગળ રહે છે. ભારત સરકારના માર્કેટ સ્મોલ અને મીડીયમ ઉદ્યોગોના મંત્રાલય દ્વારા MSME ઉદ્યોગો પણ આ સ્પર્ધામાં ટકી રહે અને વૈશ્વિક સ્તરે વિસ્તરણ કરી શકે તે માટે ડિઝાઇન અવેરનેસ સેમીનાર યોજવામાં આવે છે, માત્ર કમર્સિયલ પ્રોડક્ટમાં નહિ પણ ઈન્ડસ્ટ્રીયલ પ્રોડક્ટનાં વેપાર, પ્રોસેસ અને સર્વિસ આપવામાં પણ ડિઝાઇન અવેરનેસ મહત્વ પૂર્વ ભાગ ભજવે છે.



Moulds Machining Methods:

Plastics moulds define the shape forming complete three dimensional plastic parts. They are required for all plastic process like Blow, Injection, Rotational, Compression and is very important component in the plastic processing. A die, on the other hand, is used to form two of the three dimensions of a plastic part. The third dimension, usually thickness or length, is controlled by other process variables. The plastics processes that use dies are extrusion, pultrusion and thermoforming. Many plastics processes do not differentiate between the terms mould and die. Moulds, however, are the most predominant form of plastics tooling.

Types of Mould : The basic types of mould, regardless of whether they are compression, injection, transfer, or even blow moulds, are usually classified by the type and number of cavities they have: (a) Single-cavity or (b) Multiple-cavity. Moulds are built through two main methods: standard machining and electrical discharge machining (EDM) or spark erosion.

Standard Machining : in its conventional form, uses lathe machines, drilling, turning, boring, milling, broaching, sawing, shaping, planing, reaming, and tapping, or grinding for building moulds. With technological development, computer numerical control (CNC) machining became the predominant means of making more complex molds with more accurate mold details in less time than traditional methods.

Electrical Discharge Machining (EDM) : or spark erosion process has become widely used in mold making. EDM is a simple process in which a shaped electrode, usually made of copper or graphite, is very slowly lowered onto the mold surface (over a period of many hours), which is immersed in paraffin oil (kerosene). Material is removed from the work piece by a series of rapidly recurring current discharges between two electrodes, separated by a dielectric liquid and subject to an electric voltage.

Computer Numerical Control (CNC) Machine : In modern CNC systems, end-to-end component design is highly automated using computer-aided design (CAD) and computer-aided manufacturing (CAM) programs. The programs produce a computer file that is interpreted to extract the commands needed to operate a particular machine via a postprocessor, and then loaded into the CNC machines for production. Since any particular component might require the use of a number of different tools-drills, saws, etc., modern machines often combine multiple tools into a single "cell". In other cases, an external controller and human or robotic operators that move the component from machine to machine. In either case, the complex series of steps needed to produce any part is highly automated and produces a part that closely matches the original CAD design.

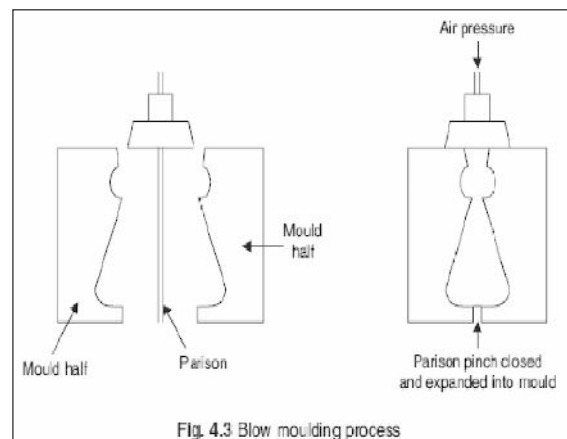
Computer Aided Design (CAD) allows engineers to create detailed designs of parts with maximum efficiency and minimal cost. The days of the drawing boards are essentially over with the release of affordable and easily used 2D and 3D CAD packages.

The aim of CAD is to apply computers to both the modelling and communication of designs. This includes automating such tasks as the production of drawings or diagrams and the generation of lists of parts in a design are now closely integrated with the techniques for modelling the form and structure of the design.

Moulds for different plastic processes :

Blow Moulding is the process of melting down the plastic to form it into a hollow tube, known as a parison which is then clamped between two halves of a mould and inflated with compressed air into it to assume the shape of that mould.

Blow Moulds: Blow mould is a simple design two halves mould comprising of hollow cavity half on each side. The inside of the mould cavity determines the surface quality of final product. The mould requires Low Clamping Pressure, adequate cooling &

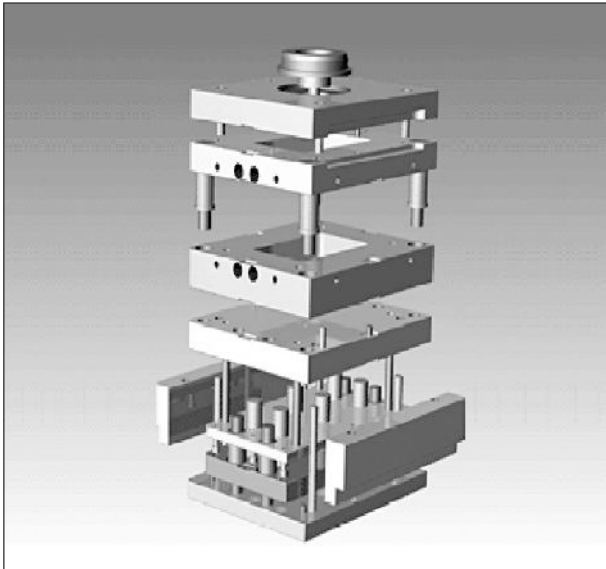


good air venting from cavity. Cooling areas near top and bottom helps reduce cycle time eliminates stress in product. Material of construction: materials used are machined steel, aluminum cast and machined, beryllium-copper, kirsite.

Injection molding is the most widely used method of producing parts out of thermoplastic material. The molten thermoplastic material is injected into the mold at high pressure. Once this material cools and solidifies, the mold opens and the part is

ejected. During the injection molding cycle, the mold serves several purposes, including:

- Determining the finished shape of the part
- Venting trapped air or gas during injection
- Acting as a heat exchanger to draw heat from the part to aid in solidification
- Providing a means of ejecting the part from the



mold

The mould is responsible for providing shapes and dimensions to the plastic part produced part with good surface quality

Injection Moulds:

Two main types of injection moulds are Cold runner and Hot runner moulds. The channel of material flow are heated and maintained at specific temperature in hot runner moulds.

Common types moulds used in industry are

A two plate mould has one parting plane, and the mould splits into two halves. A three plate mould has two parting planes and the mould splits into three sections, providing flexibility in gating location.

Insert Mould- to mould plastic around other materials, such as metals or base Eg- screw drivers, electrical plugs, others
Other Injection moulds are 2-Shot Moulds , Stack Moulds, others

Mould Components: All moulds contain a number of common design features which includes :

Mould base, Mould cavity, Mould core, Sprue bushing, Runner system, Gates, Vents, Cooling system, Ejector system plus other components like guide pins bushings, spring, others

The mold base is an arrangement of steel blocks manufactured to specific dimensions. Mold bases may be produced in house or are available ready to purchase from commercial mold base manufacturers in various sizes.

The basic Injection mould base consists of two halves. The one half is the stationary side of the mould from which side the Injection of polymer takes place and other half is the moving

side.

The stationary side mostly compromises of mould cavity which creates the outer image or surface of the part while the while the mould core also called punch is reproduces the inner image of the part is typically mounted on the moving half of the mould.

Mold bases, cavity and cores are commonly made from special mould steels.

Other materials such as beryllium copper, stainless steel, aluminium, brass are also used.

Application Products: furniture, automotive components, household, caps, spoon, telephone, appliances housing and many others.

Thermoforming is the process of forming flat Plastic sheets into desired shaped parts through application of heat and pressure. In general terms, Thermoforming refers to all sheet forming methods

Thermoforming Moulds: There are 2 basic type of moulds MALE & FEMALE. Tooling for this process is the most inexpensive compared to other plastics processes.

Different mould types are: Wood Patterns, Cast Aluminium Moulds, Machined aluminium Moulds, Composite Moulds -.E.g. Epoxy, Polyester or fibreglass.

For prototypes or short runs, wooden moulds are often used.

For long runs, metal moulds are preferred. For shallow parts with small draw ratios they can be Machined Aluminium Moulds. Cast Aluminum Moulds typically are built for parts with large draw ratios. Cost-efficient composite materials are used for short production runs and have limited life.

Rotational Moulding is a plastics process to produce hollow plastic parts. In this the finely ground powders are heated in a rotating mould until melting or fusion occurs The melted or fused resin uniformly coats the inner surface of the mould. When cooled, a hollow finished part is removed.

Rotational Moulds: The Moulds (or tooling) for Roto moulding are fairly inexpensive, and relatively simple. They are either fabricated from welded sheet metal or by casting.

Common example is cast Aluminium or Steel cavity with flat flanges and toggle clamp mould closing latches. The inner wall provides the outer surface quality of the product.

Application Products – Large water tanks, overhead tanks, Highway barriers and road signs, automotive parts others.

Extrusion refers to process in which material is forced out through a die or series of die to shape it in the desired form.

of Extrusion Dies: There are five types of extrusion dies: (1) prfiol (moulding and rod), (2) tubing, (3) sheet, (4) film, and (5) wire coating.

Die is an opening of particular shape in metal plate that allows plasticized material to flow through itself and provide its shape to the plastic. Manufactured from high-quality alloy tool steel, then hardened and area where plastic melt contacts the die is hard chrome plated to avoid erosion and corrosion.

Types of Film Extrusion Dies: Side feed die , Bottom feed die, Spiral flow die

T-Die (Coat hanger Die): used for sheet extrusion, cast films,

extrusion coating

Mold release agents

All Plastic tends to shrink and gets adhered on to punch or in corners and undercut design in the mould. A good mold release agent (MRA) will allow the material to be removed quickly and effectively. Mold releases can reduce cycle times, defects and browning of finished product. There different mold release types available are: Sacrificial coatings: the coating of MRA has to be applied each time because most of the MRA comes off on the molded part when it releases from the tool. Silicones are typical MRA compounds in this category.

Semi-permanent coatings: the coating, if applied correctly, will last for a number of releases before requiring to be re-applied or touched up. This type of coating is most prevalent in today's Plastic industry.

Permanent coatings: Mostly PTFE coating in one of its form is applied to the mold. Permanent coatings avoid the need for operator application, but may become damaged by misuse.

List of molding shrinkage ratios of major plastic materials

Plastic material name	Shrinkage ratio (%)	Cavity surface temperature (°C)	Injection molding pressure (kgf/cm ²)
Acrylonitrile Butadiene Styrene polymer - ABS	0.4~0.9	50~80	550~1750
Polystyrene - PS	0.4~0.7	20~60	700~2100
Acrylonitrile styrene - AS	0.2~0.7	50~80	700~2300
Ethylene vinyl acetate - EVA	0.7~1.2	50~80	1050~2800
Poly propylene - PP	1.0~2.5	20~90	700~1400
Poly propylene - 40% glass fibers	0.2~0.8	20~90	700~1400
High density polyethylene - HDPE	2.0~6.0	10~60	700~1400
Methacrylic acid methyl ester (acrylic) PMMA	0.1~0.4	40~90	700~1400
Polyamide (Nylon 6)	0.5~1.5	40~120	350~1400
PA6	0.8~1.5	30~90	350~1400
Polyamide (Nylon 66)	0.8~1.5	30~90	350~1400
PA66	0.8~1.5	30~90	350~1400
Poly acetal	2.0~2.5	60~120	700~1400
POM	2.0~2.5	60~120	700~1400
Poly butylenes terephthalate	0.2~0.8	40~80	560~1800
PBT with 30% glass fibers	0.2~0.8	40~80	560~1800
Polycarbonate	0.5~0.7	80~120	700~1400
PC	0.5~0.7	80~120	700~1400
Poly phenylene sulfide	0.2~0.4	130~150	350~1400
PPS with 40% glass fibers	0.2~0.8	70~110	700~1400
Liquid crystal polymer 40% glass fibers	0.2~0.8	70~110	700~1400
Modified polyphenylene oxide (Modified PPO)	0.1~0.5	80~90	-
Poly sulfone	0.7~0.8	90~100	-
PSF	0.7~0.8	90~100	-
Polyether sulfone PES	0.6~0.8	120~140	-
Poly ethylene terephthalate	0.2~0.4	70~100	-
PET	0.2~0.4	70~100	-
Polyether ether ketone	0.7~1.9	120~160	-
PEEK	0.7~1.9	120~160	-

All Information is provided in good faith with intention of providing knowledge however user discretion before applying the same is required. We neither claim accuracy of the data nor take any responsibility for consequences arising thereof.

Shrinkage% of Plastic & Rubber Material in Moulds	
Material Name	Shrinkage %
ABS	0.4 - 0.7
CA	0.3 - 0.7
CAB	0.2 - 0.5
CP	0.2 - 0.5
EVA	0.7 - 2.0
FEP	3.0 - 6.0
GPPS	0.2 - 0.8
HDPE	1.5 - 4.0
HIPS	0.2 - 0.8
LDPE	1.5 - 4.0
PA6	1.0 - 1.5
PA66	1.0 - 2.0
PBT	1.5 - 2.0
PC	0.6 - 0.8
PES	0.6 - 0.8
PET	1.8 - 2.1
PMMA	0.2 - 1.0
POM	2.0 - 3.5
PP	1.0 - 3.0
PPO	0.5 - 0.7
PSU	0.6 - 0.8
PTFE	5.0 - 0.9
PVDF	2.0 - 3.0
SAN	0.2 - 0.6
PP/EPDM	1.0 - 2.0
PUR/TRU	0.5 - 2.0
SBS	0.4 - 1.0
SEBS	1.0 - 5.5
DMC	0.5 - 0.2
MF	0.6 - 1.0
PF	0.7 - 1.2

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Website: http://www.davetechnical.com/plastic_technical_handbook

Advt. /Profile in Technical Handbook on Packaging CD at INTERPACK 2014 Germany & PACKTECH International Mumbai in India.

Dave Technical Services has been declared Winners of **4th National Awards for Technology Innovations** by Ministry Department of Chemical & Petrochemicals - **GOVT OF INDIA for design & development of "Mini Blow Twin Station Form- Fill- Seal (FFS) Machine"** under the category of Innovation of Polymer Processing Machinery and Equipment's

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- Blow, Injection, Extrusion, Rotational, Vacuum/Thermoforming, Compression molding, others
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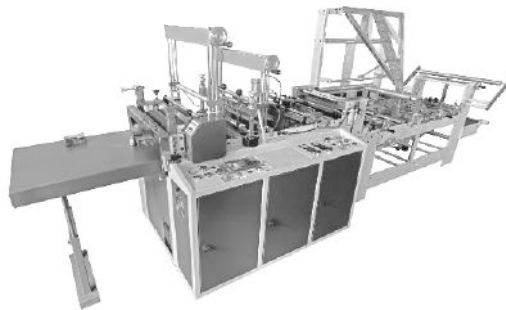
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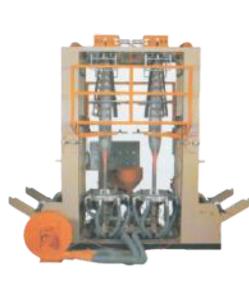
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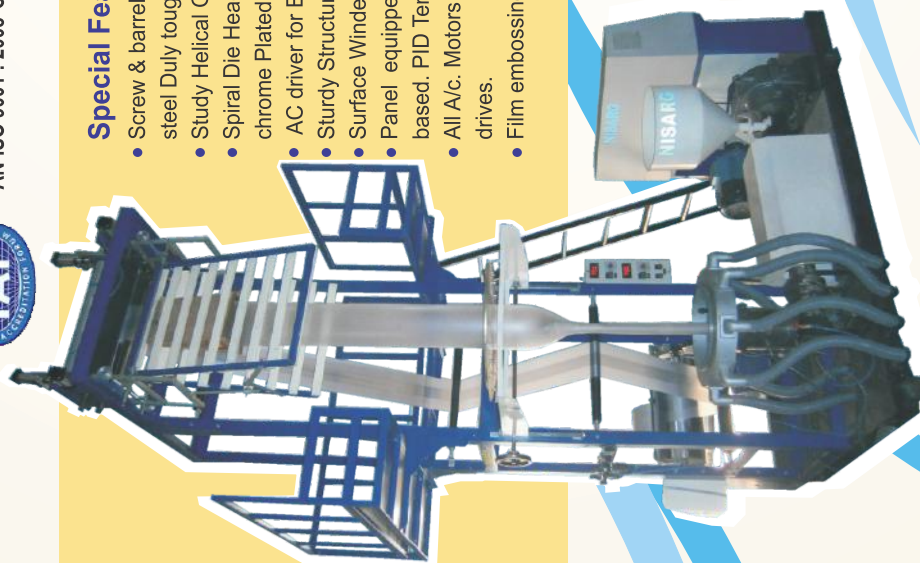


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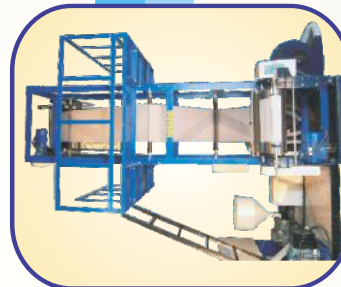
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- Screw & barrel made from EN-41B Alloy steel Duly toughened & gas nitreated.
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- Spiral Die Head duly polished and Hard chrome Plated.
- AC driver for Extruder and Take-up.
- Sturdy Structural Construction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



SPECIFICATION OF HM/HDPE/LDP/LLDP BLOWN FILM PLANT

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



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