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9th Mega Industrial Exhibition 27 Nov. to 1 Dec. 2014 at Vadodara EXHIBITION HIGHLIGHTS

- Over 500 stalls in 9 lac sq. ft. Landscaped area.
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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 & C ean 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.

For further details contact : Nilesh Shukla, Chairman, Vibrant VCCI 2014 Exhibition VADODARA CHAMBER OF COMMERCE & INDUSTRY

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SMALL COUNTRY INTRODUCING PLASTIC COINS



You've heard of countries adopting plastic currency, to replace paper money. How about plastic coins, to replace metal?

It's hard to believe

but true. The tiny republic of <u>Transnistria</u> is introducing composite coins that it claims are difficult to counterfeit.

Extra credit goes to Plastics Blog readers who have heard of Transnistria before, or by its other names including the Pridnestrovian Moldavian Republic.

I confess I had not heard of it before today, and I had to look it up to make sure it's a real place. Indeed, Transnistria is real. Not like <u>Freedonia</u> or <u>Fenwick</u>.

Transnistria is located on the Dniester River, between Moldova and Ukraine. Formerly part of the Soviet Union, it is not recognized by any United Nations member state, but it has a government, national anthem, flag, postal system ... and currency.

And that's where the plastic comes in.

According to <u>News of Pridnestrovia</u>, the country's official information agency, the Republican Bank of Pridnestrovie introduced composite coins with face values of 1, 3, 5 and 10 Transnistrian rubles on Aug. 22.

The coins were minted in Russia, and the designs have some unique features: various geometric patterns; special tactual properties; luminescence when exposed to infrared and ultraviolet rays; and elements with selective infrared absorption, according to the report: "New monetary units in circulation."

Image By: News of Pridnestrovia The story does not identify the composite materials used to make the coins, but notes that they are "characterized by a higher degree of strength and durability, which will limit (or even exclude) the potential for counterfeiting."

I don't imagine that counterfeiting Pridnestrovian rubles would be a profitable undertaking, with the exchange rate set at 11 rubles to one U.S. dollar. But many nations already use plastic banknotes in much larger denominations, and the anti-counterfeiting technologies available to plastics converters are substantial and quite effective.

Perhaps these plastic coins will catch on — with Transnistria leading the way.



Courtesy



INJECTION MOLDING INDUSTRY REPORT - 2014

GROWTH, OPPORTUNITY IN SIGHT FOR INJECTION MOLDERS IN 2014

In the wake of the economic turbulence earlier in this decade, molders today find themselves in much better shape. Molders are gaining a competitive advantage by investing in people, equipment and seeking inroads into new markets on a global scale.

STAY INFORMED and gain a competitive edge. The 2014 Injection Molding Industry Report provides key industry analysis and statistics, examines M&A activity, as well as current and emerging trends in machinery sales, industrial robotics and the impact of automation on the injection molding sector.

Economist Bill Wood examines the future of the segment, providing a forecast for sales to major end markets and analyzes plastics manufacturing production trends.

Also included are in-depth reviews of 77 leading injection molders - assessing growth initiatives and financial performance over a 10 year period.

This version includes all of the supporting raw data referenced in the report in MS Excel. This includes nine detailed spreadsheets with historical data on the economy back to 1986, plastics industry employment and key financial data for 77 leading injection molders.

Courtesy



STAY INFORMED with PN's latest market report that provides in-depth market analysis and industry statistics, examines M&A activity in the PP&T segment, as well as emerging trends in machinery sales, and innovations in product

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PIPE, PROFILE & TUBING EXTRUSION IN NORTH AMERI

Competitive intelligence on leading machinery manufacturers and PP&T processors, assessing historical performance metrics.

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AUTOMAKERS LOOK UNDER THE HOOD FOR THE NEXT LIGHTWEIGHTING OPPORTUNITIES



TRAVERSE CITY, MICH. — The automotive industry's current favorite target for lightweighting efforts is the powertrain, according to a recent survey.

The survey of 880 automotive

insiders, from DuPont Co. and WardsAuto, was released during the Center for Automotive Research's Management Briefing Seminars in Traverse City.

Twenty-four percent of respondents said the engine and transmission are their primary targets for lightweighting, followed by chassis at 12 percent and body-in-white at 11 percent. Body panels tied with electrical and accessories at nine percent. Jeff Sternberg, director of automotive technology at DuPont, speculates that successful weight reduction efforts in other structures of the vehicle are prompting a new focus under the hood. "That's where the opportunity is, right? Powertrain, engine, transmission - there's just a huge amount of weight there. And, you know, go where the weight is when you're looking for new opportunities. I think that's one factor," he said in a phone interview.

Sternberg also said he sees a growing understanding of and appreciation for how plastics and composites will function in a powertrain setting. Materials engineers at General Motors Corp. discussed their attention to plastics' performance in temperature- and chemicalintensive environments in a follow-up phone interview. GM has already worked to convert many powertrain components to plastics or composites, including broad use in the engine of the Chevrolet Cruze, and uses of composite materials for acoustical treatments inside engine compartments. **Courtesy**





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Plastic Tomorrow

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"We design around 150" [Celsius]; we n e e d o u r plastics to function in that temperature environment," said Derek Ewing, from G M ' s

transmission sector. "Also the plastic has to be resistant to the transmission fluid that it's constantly exposed to, so chemical resistance and temperature resistance are properties that the plastic must have before we will convert the part to plastic from metal."

Matt VanDyke, from the engine sector, said he looks to premium materials to provide the necessary properties.

"As power density goes up, temperature is on the rise under hoods, so for composite components on the engine, especially in sealing applications, we're very conscious of temperature limits as well as limited creep that we would get out of using premium materials rather than everyday nylon," he said. "We would investigate some of the higher-grade materials to keep the creep low, to have thermal expansion that would be closely matched to its mating component, to ensure that there's no leaking of any sort of internal fluids."

For now, the use of plastics isn't being limited by high-pressure areas, although that could become more of an issue in the future, Matt added.

Ewing said he's confident plastics and composites will continue to provide the properties needed to stand up in a growing number of under-the-hood applications.

"We are looking at different types of plastics right now, from nylons to PEEK to PPS, and all of these types of plastic materials have really good chemical resistance and temperature resistance," he said. "Right now we're working with our material manufacturers and they're constantly developing better plastic materials as well. ... I see the opportunity for using plastics and developing plastics that will meet our performance requirements as continuous and ongoing and actually getting better, as opposed to reaching a plateau."

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PLASTICS IN AUTOMOTIVE : BUILDING TOMORROW'S CAR

PRODUCT ANNOUNCEMENT FROM CELANESE CORPORATION

As automakers increasingly turn to new materials to reduce weight and maximize fuel efficiency, new opportunities are on the way for plastics. Advances in autonomous technology, alternative fuels and automotive computing mean we are poised on a potential shift in how people view and use their cars. Trends in design, materials and sustainability are opening new pathways for plastics to help build a car that is powerful, safe, comfortable and affordable.

Plastics in Automotive: Building Tomorrow's Car will cover existing and future advancements, growth opportunities and success stories in automotive plastics, while exploring how plastics can be the go-to materials for automakers and suppliers.

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Research and Markets: India Plastic Additives Market Forecast and Opportunities, 2019

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Plastic additives market revenues are projected to grow at a CAGR of 14% during 2014-19 due to increasing demand from end-user markets for plastics, such as packaging, construction and automobiles. In 2013, the demand for Plasticizers was recorded highest, followed by heat and light stabilizers.

Increasing consumption of plastic additives is also expected to be supported by rising demand for high value plastic products in different end user industries. For instance, use of fire retardants in automobiles is increasing owing to increasing safety concerns among consumers as a result, manufacturers have started to increase their focus towards addressing quality and safety concerns of Indian consumers.

The demand for plastic additives is growing in line with increasing demand for plastics, which is strongly correlated with economic growth of the country. Demand for plastics is growing as they offer a better alternative to traditional materials such as wood, metal and glass in a wide range of applications. The fastest growing plastic polymers in India are polypropylene and polyethylene, followed by Polyvinyl Chloride (PVC). Growth in these polymer segments is emerging as a key driver for augmenting the demand for plastic additives in India.

India Plastic Additives Market Forecast & Opportunities, 2019 elaborates following particulars:

- A Plastic Additives Market Size, Share & Forecast
- B Segmental Analysis Plasticizers, Stabilizers, Flame Retardants & Antioxidants
- C Policy & Regulatory Landscape
- D Changing Market Trends & Emerging Opportunities
- E Competitive Landscape & Strategic Recommendations MarketTrends
- F Non-Halogenated Flame Retardants
- G Packaged Products
- H Adopting Nanotechnology

- Plasticulture
- J Bio-additives
- K Metal & X-Ray Detectable Additives
- Key Topics Covered:
- 1. Research Methodology
- 2. Analyst View
- 3. India Specialty Chemicals Market Overview
- 4. India Plastic Additives Market Overview
- 5. India Plasticizers Market Analysis
- 6. India Stabilizers Market Analysis
- 7. India Flame Retardants Market Analysis
- 8. India Antioxidants Market Analysis
- 9. India Plastic Additives Market Dynamics
- 10. India Plastic Additives Market Trends
- 11. India Economic Profile
- 12. Competitive Landscape
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- 14 Adeka India Private Limited
- 15 Akzo Nobel India Limited
- 16 Baerlocher Additives India Private Limited
- 17 BASF India Ltd.
- 18 Chemtura Chemicals India Private Limited
- 19 Clariant Chemicals India Ltd.
- 20 Croda Chemicals (India) Pvt. Ltd.
- 21 Dow Chemical International Private Ltd. (Dow India)
- 22 ExxonMobil Company India Private Limited
- 23 Fine Organics Industries Private Ltd.
- 24 KLJ Group
- 25 K-Tech (India) Limited
- 26 LANXESS India Private Ltd.

http://www.researchandmarkets.com



WITH HELP FROM COKE, VIRENT BOOSTS PRODUCTION OF BIO-BASED PARAXYLENE



WASHINGTON Bioplastics developer Virent is ramping up operations in Madison, Wis., thanks to

additional investment from Coca-ColaCo. The company is not disclosing the amount but, "it's a significant investment for Virent," said Kieran Furlong, director of chemicals business development. "For us, this shows continued commitment to Virent from the Coca-Cola Co.. which we think is a positive development for us."

The cash infusion will help the would-be bio-based resin supplier add equipment at the demonstration level to make more of its biobased paraxylene, BioFormPX, for PET bottle production, filling in the gap between experimental production of around 22,000 pounds per year and eventual large-scale commercial production, Furlong said. Virent will be able to accommodate delivery of significant quantity demands for customer validation purposes by the end of the year, he said.

Atlanta-based Coke began investing in bioplastics development heavily in 2011, as part of an effort to speed development of its PlantBottle and reach its goal of doubling the daily serving of Coca-Cola beverage in bioplastic bottles to 3 billion by 2020.

Over the course of our work together, Virent has continuously delivered on their commitments and advanced their technology. That progress supports building additional capability for Virent and advances us on the path to a full-scale commercial solution for our 100 percent plant-based PET plastic packaging" said Coke's Scott Vitters, general manager of the PlantBottle Innovation Platform, in a release.

Virent is one of three bioplastics companies targeted by Coke three years ago, along with Avantium Research and Technology, an Amsterdam company whose YXY chemical catalytic technology a new bio-based plastic, PEF, to make 100 percent bio-based bottles and Englewood, Colo.'s Gevo Inc., developer of a 100 percent-renewable isobutanol, a paraxylene building block.

Gevo got a \$26 million shot in the arm in August, issuing the debt to a single buyer, according to a Bloomberg report, after selling \$18 million in shares in July to expand its Minnesota production plant, Gevo is backed by Vinod Khosla and French oil company Total SA,

Also in August, Virent got the go-ahead from the U.S. Environmental Protection Agency for its biofuel. In blends with conventional gasoline, up to 45 percent can now be made up of the company's BioForm plant-based fuel, though Virent does not yet have a timeline for commercializing the mix, beyond working with the Ferrari Formula 1 racing team. Courtesy

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અનેક સમસ્યા વચ્ચે પીસાઈ રહેલે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝ

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 અમુક સમચથી કાચામાલના ભાવમાંઅદાજે ૯પ % 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 રાજય સરકાર ના નિયમો ની ઘણી સમસ્યાઓનો સામનો કરવો પડે છે. ભારતમાં પ્લાસ્ટીક ઉત્પાદનમાં ૩પ% મોટા એકમોનો દિસ્સો રહેલો છે. જ્યારે મધ્યર્મ અને નાના એકમોનો ૬પ% દિસ્સો દોય છે.

ઈન્ડસ્ટ્રીઝ માં ટકી રદેવા માટે અને મંદીના મોદ્યેલ વચ્ચે ઉત્પાદન જારી રાખવા માટે પ્લાસ્ટીક ઈન્ડસ્ટ્રઝના વેપારીઓને સરકારના ટેકાની જરૂર દાેચ છે. ઓછી માંગ વધતા બાબતને કારણે એમનીના નાણાંકીચ દાલત ઘણી નાજુક થઈ ગઈ છે. આ દરમ્ચાન મજુરોના વધતા પગાર વધારાને કારણે કારીગરની અછત જોવા મળી રદી છે. આ ઉદ્યોગ માટે દાલનો 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 દકીકત થી સરકાર માદીત ગાર થઈ શંક શે.

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 કાર્યરત છે. જેમ કે મશીનરીની બનાવટ, રો મટીરીચલ તેમજ મોલ્ડીંગ પ્રોડક્ટસ બનાવનારા ઉદ્યોગો કેલાચેલા છે. સમગ્ર દેશમાં કેલાચેલ પ્લાસ્ટીક ઉદ્યોગ ઠાલ કઠીન સંજોગોમાંથી પસાર થઈ રહ્યો છે. એકાદ બે નઠી બલ્કે અનેક સમસ્યાઓને કારણે આ ઉદ્યોગ મૂરઝાઈ રહ્યો છે. દેશમાં હાલમાં ઓદ્યોગીક ક્ષેત્રે લાબા સમચથી 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 કારણે 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 પાર્ટ્સ, મશીનરી, મત્સ્ય ઉદ્યોગ, ઈલેક્ટ્રીકલ

પ્લાસ્ટીક એજ મિત્ર

પ્લાસ્ટીકની થેલી બ્લોઈગ પ્રોસેસથી બનાવાય છે. જયારે પણ આપણે પ્લાસ્ટીક શબ્દ સાંભળીએ ત્યારે મગજમાં એક જ પ્રશ્ન ઉદ્ભવે કે શું પ્લાસ્ટીકથી પર્ચાવરણને નુકશાન થાય છે ? પરંતુ દરેક વસ્તુના બે પાસા હોય છે. (૧) સારા (૨) ખરાબ. જેવી રીતે તમે ખરાબ પાસા એટલે કે પ્લાસ્ટીકથી નુકશાન થાય તે સાંભળો છો પણ એવું વિચાર્યું કે તેનાથી આપણે કેટલો બધો લાભ થાય છે. પ્લાસ્ટીકને શાપરૂપ માનશો નહી એ તમારો મિત્ર પણ બની શકે છે. દુનિયામાં પ્લાસ્ટીકને શાપરૂપ માનશો નહી એ તમારો મિત્ર પણ બની શકે છે. દુનિયામાં પ્લાસ્ટીકનો માથાદીઠ વપરાશ સૌથી ઓછો ભારતમાં છે. ભારત સરકાર હવે માથાદીઠ પ્લાસ્ટીકનું વપરાસનું પ્રમાણ વધારવા માંગે છે. હાલમાં પ્લાસ્ટીકનો વપરાશ માથાદીઠ ૧૨ કિલોનો છે. પરંતુ આગળના વર્ષમાં તેનું લક્ષ્યાંક વધારવા માંગે છે. ભારતામાં પેટ્રોકેમિકલ્સ ઈન્ડસ્ટ્રીઝનું ભાવિ ઉજ્જવળ છે અને હજી વિકાસની તકો રહેલી છે. દહેજમાં ભરતમાં સૌથી મોટુ પેટ્રોકેમીકલ્સ કોમ્સૉપલેક્ષ



BHUMI DESAI

ઉભુ કરવાનું કામ અંતિમ તબક્કાઓમાં છે. અમુક જણે તો કે.કે. પોલીબ્લેન્ડ નામનું રી-સાઈકલ થઈ શકે તેવું પ્લાસ્ટીક બનાવ્યું. સંસ્થાનો પારંભ કર્યો જેમાં પ્લાસ્ટીક રી-સાઈકલ થાય. જ્યારે બૃહદ મહાનગરપાલીકાએ આ પ્લાસ્ટીકનો ઉપયોગથી રોડ તૈયાર કર્યો. ઉપયોગ : પ્લાસ્ટીકને રી-સાઈકલ કરીને ફરીથી પ્લાસ્ટીક બનાવતા ૯૦% ટકા જેટલી વીજળી ઓછી વપરાય છે. પ્રોસેસમાં પાણીનો ઉપયોગ બીલકુલ થતો નથી, વારવાર ત્રીસથી વધુવાર રીસાઈકલીગ કરી ફરી વાપરીથ શકાય છે. પ્લાસ્ટીક પર પ્રતિબંધ મૂકવો કે ના મૂકવો ? પ્લાસ્ટીક પર પ્રતિબંધ મૂકવો એ જ માત્ર ઉપાય નથી કારણ કે એમ કરવા જતાં પ્લાસ્ટીકને બદલે કાગળો અને કપડા નો વપરાશ વધશે અને તેને પરિણામે વૃક્ષોનો નાશ થશે. વળી, આ પ્રકારના પ્લાસ્ટીકથી નુકશાન થવાની સંભાવના ઓછી છે. તેને રી-સાઈકલ કરીને એ પ્લાસ્ટીકની આવરદા લંભાવી શકાય છે. પ્રતિબંધ મૂકવા કરતાં તેને રિ-સાઈકલ કરીને તેનો ઉપયોગ વધારીને જંગલોનો નાશ અટકાવી શકાય છે. દુનિયા ભરના તમામ પ્રગતિશીલ દેશો એટલેજ પ્લાસ્ટીકનો માથાદીઠ વધુને વધુ વપરાશ કરી પર્ચાવરણનું ખરા અર્થમાં જતન કરવુ.

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SATYASAI DEVELOPS MOULDS FOR PAINT CONTAINER

Mumbai: 21st July 2014: SatyaSai launched its new series of Moulds for Paint container with leak proof locking technology. The paint industry was looking for a cost effective packaging solution for many years, which made possible and fulfilled by SatyaSai. We provide moulds with high quality steel, reduce cycle time, increase production, and lower power consumption with faster cycle time, cost and reliability with flexibility to produce wide range of products.

Mr. Vilas Manjrekar - Managing Director of SatyaSai Exports acknowledges that, the industry needs more innovations and new technology at affordable price for improving the packaging of liquid like paint and oil. He is confident about the technical capability within the group and the team is focusing on innovative ideas for new developments in container packaging. He also emphasized that; "SatyaSai" is the only mould maker that; has developed a preferred brand in a very short time because of their compact, fast, consistent and reliable moulds and the excellent after Sales Service Support. His experience as a processor helped him to add more value to the moulds, they can also have hot runner and cold runner moulds as per the requirements, He further added that; I know what a processor need and what they go through when there is failure in mould; I should reduce their burden by giving perfect moulds.

Our experts are looking forward to have a most cost effective and attractive designs; very soon we will be launching our new range of products which will change the entire scenario of the container industry. Apart from the paint industry this will be also useful for other products like pharmaceuticals, chemical, agriculture, oil and natural resources. Our Moulds can run on fully automatic and semi automatic machines capacity ranges from 500 ml to 27 liters, we always focus on improving the quality service to the industry.

We are in the processing and mould making Industry for last 25 years having vast experience in this field we are able to cater our services effectively.

www.mouldssatyasai.com





<u>PLASTICS हे FANTASTIC</u>

प्लास्टिक्स हमारी दुनिया है प्लास्टिक्स ही हमारा व्यापार है पंचत्त्व के बाद सृष्टि को मिला यह अनुपम उपहार है ॥1॥

कभी काच सा यह पारदर्शी कभी रंग-बिरंगी बहार है ठोस भी है धातु जैसा इसमें लचीलापन, कम भार है ॥2॥

कार्बन, हाइड्रोजन हैं मुख्य अंश **Polymers** के ढेरों प्रकार है थर्मोप्लास्टिक और थर्मोसेटिंग दो तत्त्वों ये संसार है ॥3॥

H.D.P.E., P.P., P.V.C.,PET हर जुबाँ पे झाब्द सवार हैं Injection, Extrusion, Blow Moulding Processing के विविध प्रकार हैं 11411

> प्लास्टिक्स कुदरत का एक चमत्कार है हमें इससे बेहद-बेहद प्यार हैं इसकी महत्ता को पहचान लो अब गर करना देश का उद्वार है ॥8॥



Anil Mandhania President : PEA (I) (M) : +91 - 98240 26487

घर, ओफिस, वाहन उद्योग फ्लास्टिक्स हर जगह बेशुमार है पल-पल, पग-पग काम आये इसके महत्त्व से किसे ईनकार है **11511**

जी वन सरल बनाने में फास्टिक्स का अहम किरदार है स्वर्णिम जवानी इसमें बिता दी ये हमारा श्रम-साधित संसार है **॥6॥**

ढालने में कम ऊर्जा लगे प्राकृतिक संपदा का भी बचाव हैं जगह-जगह लकडी की जगह ली, वन-वृक्षो का तारण हार है **॥७॥**



Abs	Acrylonitrile-butadiene-styrene
Asa	Acrylate-styrene-acrylonitrile
Ath	Aluminium Trihydrate
Bds	Butadiene-styrene Block Copolymer
Bmc	Bulk Moulding Compound
Ворр	Biaxially Oriented Polypropylene
Br	Butadiene Rubber
Са	Cellulose Acetate
Cab	Cellulose Acetate-butyrate
Сар	Celluse Acetate Propionate
Ce	Cellulose
Cmc	Carboxymethyl Celluse
Cn	Cellulose Nitrate
Ср	Cellulose Propionate
Csm	Chopped Strand Mat (or) Chlorosulphonated Polyethylene (rubber)
Dmc	Dough Moulding Compound
Ectfe	Ethylene Chlorotrifluoro Ethylene Copolymer
Epdm	Ethylene-propylene-diene Monomer (elastomer)
Epm	Ethylene-propylene Rubber = Epr
Epr	Ethylene-propylene Rubber = Epm
Eps	Expanded Polystyrene
Eva	Ethylene Vinyl Acetate
Evoh	Ethylene Vinyle Achol
Fep	Fluorinated Ethylene-propylene
Frp	Fibre Reinforced Polyester/plastics
Gmt	Glass Mat Thermoplastic
Gpps	General Purpose Polystyrene
Grp	Glass Reinforced Plastic
Hdpe	High Density Polyethylene
Hema	Hydroxyethyl Methacrylate Polymer
Hips	High Impact Polystyrene = Tps
Lcp	Liquid Crystal Polymer = Srp
Ldpe	Low Density Polyethylene
Lldpe	Linear Low Density Polyethylene
Mbs	Methacrylate-butadiene-styrene Terpolymer
Mdpe	Medium Density Polyethylene
Mf	Melamine Formaldehyde
Nbr	Nitrile Rubber = Acrylonitrile Butadiene Rubber
Nr	Natural Rubber
Орр	Oriented Polypropylene
Pa	Polyamide = Nylon
Pa 11	Nylon 11
Pa 12	Nylon 12
Pa 46	Nylon 46
Pa 6	Nylon 6
Pa 610	Nylon 610
Pa 66	Nylon 66
Pa 66/610	Nylon 66/610 Copolymer

Paa	Polaryl Amide
Pai	Polyamide Imide
Pan	Polyacrylonitrile
Pb	Polybutylene
Pbt	Polybutylene Terephthalate = Ptmt
Pc	Polycarbonate
Pe	Polyethylene
Peba	Polyether Block Amide
Peek	Polyetheretherketone
Peel	Polyester Elastomer
Abs	Acrylonitrile-butadiene-styrene
Asa	Acrylate-styrene-acrylonitrile
Ath	Aluminium Trihydrate
Bds	Butadiene-styrene Block Copolymer
Bmc	Bulk Moulding Compound
Ворр	Biaxially Oriented Polypropylene
Br	Butadiene Rubber
Са	Cellulose Acetate
Cab	Cellulose Acetate-butyrate
Сар	Celluse Acetate Propionate
Се	Cellulose
Cmc	Carboxymethyl Celluse
Cn	Cellulose Nitrate
Ср	Cellulose Propionate
Csm	Chopped Strand Mat (or) Chlorosulphonated Polyethylene (rubber)
Dmc	Dough Moulding Compound
Ectfe	Ethylene Chlorotrifluoro Ethylene Copolymer
Epdm	Ethylene-propylene-diene Monomer (elastomer)
Epm	Ethylene-propylene Rubber = Epr
Epr	Ethylene-propylene Rubber = Epm
Eps	Expanded Polystyrene
Eva	Ethylene Vinyl Acetate
Evoh	Ethylene Vinyle Achol
Fep	Fluorinated Ethylene-propylene
Frp	Fibre Reinforced Polyester/plastics
Gmt	Glass Mat Thermoplastic
Gpps	General Purpose Polystyrene
Grp	Glass Reinforced Plastic
Hdpe	High Density Polyethylene
Hema	Hydroxyethyl Methacrylate Polymer
Hips	High Impact Polystyrene = Tps
_ср	Liquid Crystal Polymer = Srp
Ldpe	Low Density Polyethylene
Lidpe	Linear Low Density Polyethylene
VIDS	Methacrylate-butadiene-styrene lerpolymer
viape	weatum Density Polyethylene

Dave Infomedia

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Mf	Melamine Formaldehvde	Pps	Polyphenylene Sulphide
Nbr	Nitrile Rubber = Acrylonitrile Butadiene Rubber	Poss	Polyphenylene Sulphide Sulphone
Nr	Natural Rubber	Ps	Polystyrene
qqO	Oriented Polypropylene	Psu	Polysulphone
Pa	Polyamide = Nylon	Ptfe	Polytetrafluoroethylene
Pa 11	Nylon 11	Ptmt	Polytetramethylene Terephthalate = Pbt
Pa 12	Nylon 12	Pur	Polyurethane
Pa 46	Nylon 46	Pva	Polyvinyl Acetate
Pa 6	Nylon 6	Pvh	Polyvinyl Butytral (butyrate)
Pa 610	Nylon 610	Pvc	Polyvinyl Chloride
Pa 66	Nylon 66	Pycc	Chlorinated Polyvinyl Chloride
Pa 66/610	Nylon 66/610 Copolymer	Pycp	Polyvinyl Chloride Plasticised
Paa	Polaryl Amide	Pycu	Polyvinyl Chloride I Inplasticised
Pai	Polyamide Imide	Pyde	Polyvinylidene Chloride
Pan	Polyacrylonitrile	Pvdf	Polyvinylidene Flouride
Pb	Polybutylene	Pvf	Polyvinylfouride
Pbt	Polybutylene Terephthalate = Ptmt	Dych	
Pc	Polycarbonate	San	Styrene Acrylonitrile (conclymer)
Pe	Polyethylene	Sall	Styrene Actylonithe (copolymer)
Peba	Polyether Block Amide	She	Styrene butadiana aturana (blask Canalumar)
Peek	Polyetheretherketone	Sus	Styrene-buladiene-styrene (block Copolymer)
Peel	Polyester Elastomer	Sebs	Styrene-etnylene-buladiene-styrene
Pei	Polyester Imide	515	Styrene-isoprene-styrene
Peek	Polyetherketone	Sma	Styrene Maleic Annyaride
Pes	Polyether Sulphone	Smc	Sheet Moulaing Compona
Petg	Pet Copolymer	Srp	Self Reinforcing Polymer = Lcp
Petp	Polyethylene Terephthalate	I pe	
Pf	Phenol Formaldehyde	I po	Thermoplastic Olefin (rubber)
Pfa	Perfluoro Alkoxyl Alkane	l pr	Thermoplatic Rubber
Phb	Polyhydroxybutyrate	Ips	Ioughened Polystyrene = Hips
Pi	Polyimide	Три	Thermoplastic Polyurethane (rubber) = Tpur
Pir	Polyisocyanurate Rigid (foam)	Tpur	Thermoplastic Polyurethane (rubber) = Tpu
Pmma	Polymethyl Methacrylate	Трх*	Polymethyl Pentene Copolymer
Pmp	Polymethyl Pentene	Uf	Urea Formaldehyde
Pom	Polyoxymethylene	Uhmwpe	Ultra High Molecular Weight Pe
Рр	Polypropylene	Vc	Vinyl Chloride = Vcm
Рре	Polyphenylene Ether	Vcm	Vinyl Chloride Monomer = Vc
Рро	Polyphenylene Oxide	Xlpe	Cross-linked Polyethylene

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Dave Technical Services MANUFACTURERS OF PLASTIC MACHINERIES, PRODUCT DEVELOPERS & CONSULTANTS

DAVE TECHNICAL SERVICES BAGS NATIONAL AWARD FOR TECHNOLOGY INNOVATION



Mumbai: 04th August 2014: Dave Technical Services has emerged out as Winner for 4th National Award for Technology Innovation in Petrochemical and Downstream Plastics Processing Industry. M/s Dave Technical Services won the award for their "Mini Blow Twin Station Form-Fill-Seal (FFS) Machine" in the Industry category of Innovation of Polymer processing Machinery & Equipments.

The award was presented to Mr. Niranjan C Dave, Proprietor of M/s. Dave Technical Services by Mr. Ananthkumar, Hon'ble Minister for Chemicals & Fertilizers, Government of India and Mr. Nihal Chand, Hon'ble Minister of State for Chemicals & Fertilizers, Government of India at the award function held at

New Delhi. The Awards are conferred by the Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India for Technology Innovation in the fields of Polymeric Material, Polymeric Products, Polymer Processing Machinery & Equipment, Polymer Waste Management & Recycling Technology, Green Polymeric Materials & Products, Polymers in Agriculture and Water Conservation, Polymers in Public Health Care and Research in the field of Polymer Science & Technology. The award consists of a Shield, a Citation and a cash prize to the Winners. The Award for the Runners up consists of a Shield and a Citation.

Mr. N C Dave, an engineer by gualification has to his credit over 42 years of experience in field of Plastic Machines, products & material Processing. He started his career in early 70's as service engineer. Plastic was newly introduced in India then; so most of his learning on subject was through books, seminars and personal interaction with customers and industry people.

Dave Technical Services are manufacturers of Plastic Blow molding & Injection molding machines, Moulds and Product Developments Based in Mumbai, India since 1982.

Apart from the commercial activities Mr. N C Dave from beginning had a vision of providing low cost - effective & efficient plastic machine in hands of Entrepreneurs to promote Industry Development and Self Employment in Rural-Urban areas of our country. Fulfilling his dream he has developed a wide range of Mini Models (compact) Blow and Injection Moulding Machines, running commercially. Emphasizing on educational demonstration and practical working for young students in colleges compact machines models were also developed.

The awarded Blow Moulding Technology offers for the first time in world Unique flexibility of producing two different products of two different materials (polymers) having different shapes, size and thickness as required simultaneously at the same time on same machine. Even two products with different colours can be produced concurrently on this machine as required. The machine also offers the optional choice of getting Filling & Sealing arrangement on the machine. Machine can process polymers like LDPE, LLDPE, HDPE, Polypropylene, PS, HIPS, EVA, TPE others.

The Patent Protected Blow Moulding machine model is specially developed keeping in mind the customer's requirement of low power consumption & smallest floor space utilization, providing efficiency, convenience and high productivity (profitability) with suitability to install in rural areas too working on single phase power.

Earlier, Dave Technical Services has been awarded PLASTICON Awards in 2005 in Winners category for developing compact fully auto, pneumatic Blow moulding machine, operating on Single Phase and Air (No Motor in Machine) for commercial production, training in colleges and adapted to run in rural areas too.

Dave Technical Services also Received Recognition of Excellence in the category of Machinery for Package Conversion, 2010 from IPMMI for Mini Blow and compact Injection Moulding Machines.



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