PLEXCONCIL - The Plastics Export Promotion Council

PLEXCONNECT®

Edition 44, February 2023

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By the time of the release of this month's edition, and as I pen this note, we would be back from PLASTINDIA 2023 that is being held at Pragati Maidan after a long gap of nearly five years! PLASTINDIA marks a very important occasion in the annual events calendar for plastics and is undoubtedly one of the biggest showcases for the Indian plastics industry.

At Plexconcil, the run up to the event this past month was nothing short of palpable excitement. As the apex body for Indian plastics export industry, we have for decades now been at the forefront of industry, connecting Indian exporters with international buyers. Over time, the Council has gained a wealth of experience, and has established close ties with the international buyer community. This supported by access to regular export data and market intelligence has positioned Plexconcil uniquely in not just identifying new markets and export potential in established markets, but also pre-empt strategies to help exporters reach out to prospective buyers in these geographies.

Challenges in the post pandemic era continue to abound. We have been seeing recessionary conditions in the USA, the Ukraine crisis continues to impact UK alongside the energy crisis, China's COVID resurgence and more. Sentiments across the global trade continues on a cautionary note. However, despite these global headwinds, Plexconcil's efforts remained in full throttle and we finally have confirmed participation of over 300 international buyers from 32 countries converging for the RBSM. Based on past data, we anticipate business worth about USD 75 Million to take place during the event.

Indian plastics exports have enormous opportunities for growth. And while the industry continues to enhance processing capacities and capabilities, Plexconcil has been pursuing new opportunities for the exporters. In the coming months, Plexconcil will be leading Indian exporters to renowned global exhibitions under the Indian Pavilion. We will also be conducting a series of capacity building programmes across the country to highlight the benefits of exports amongst the trade.

Raw material availability is an ongoing challenge with most of our processors. Given the fluctuations in availability and pricing, there is no doubt that smaller processors find it difficult to plan their inventories and production output. In this issue of the magazine, we interviewed Arun Singhal, Founder of Source One, India's first tech enabled, full stack petrochemical distribution company with a strong interplay of distribution network, transacting with over 15,000+ plastic processors across India in over 700+ districts across the nation. The company is fast gaining recognition as an efficient partner is ensuring a smooth raw material supply chain for MSME processors. Read here to understand how the platform works and the benefits that they bring to processors.

In December 2022, the Reserve Bank of India (RBI) launched the pilot for its digital rupee — India's very own digital currency. A central bank digital currency (CBDC) is a legal tender issued by a central bank in digital form and is the same as a fiat currency, exchangeable one-to-one with government-issued money. In this issue of the magazine, Anil Kumar Bhansali, Head of Treasury, Finrex Treasury Advisors LLP talks about the E-RUPEE Wallet, what is it means and its benefits.

This is in addition to our regular feature Product of the Month in which we explore Caps and Closures exports as well as Djibouti under the Countryscape segment. Added to it, news from India and around the world.

We are always happy to hear from you so please do write in.

Warm regards,

Hemant Minocha
Chairman

Virtual Buyer-Seller Meet with M/s. Asung Ltd, S. Korean Buyer & 6 Indian Companies on 1st December 2022 | Southern Region

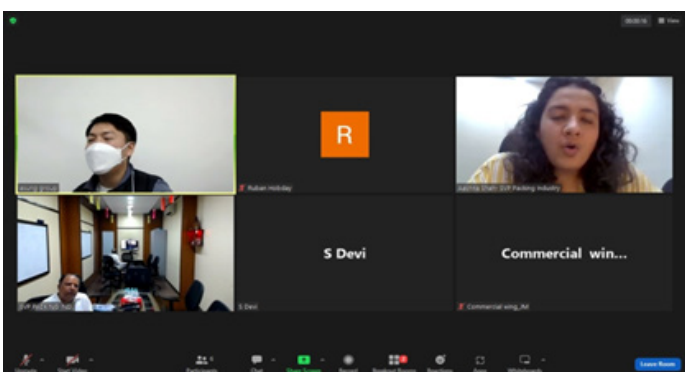
PlastIndia 2023 – RBSM Initiative

In pursuit to invite buyers from S. Korea for PlastIndia 2023, the Council arranged a Virtual BSM with one buyer from S. Korea on 1st December 2022 as per the guidance and advice of the Embassy of India, Seoul, S. Korea. This meet was organized as a prelude to bringing

the buyers from S. Korea to attend PlastIndia 2023 as Korean companies will need an initial discussion before they visit India. As per the advice of the Embassy of India, Plexconcil contacted 6 Indian companies that were identified by M/s. Asung, is a big retail chain store in S Korea.

1. AS Udyog Pvt Ltd - Gurgaon
2. Bhumi Industries – Ahmedabad
3. Dynasty Plastics P Ltd – Mumbai
4. Pureflow Solutions P Ltd – Rajkot
5. SVP Packing Industry Pvt Ltd – Mumbai
6. Unigreen – Ahmedabad

The virtual meeting was organized on 1st December 2022 successfully as all 6 companies participate as per their schedule which was 15mts for each company.



Mr. Swapnil Thorat, Second Secretary(Commerce & Investment), the Embassy of India, Korea welcomed both the Korean Company and the Indian Companies while appreciating the good work done by the Plexconcil in the last 2 years. He briefly introduced the Korean company mentioning that they were a large chain store that had gained a lot of reputation for its quality and cost-effective products.

Mr. Ruban Hobday, Regional Director & Nodal Officer for Korea thanked the Embassy for their support in the last few years in promoting Council's activities in Korea which have benefited the members. He informed us about Plexconnect 2023 to be held in June 2023 in Mumbai and invited M/s. Asung to visit India during PlastIndia or Plexconnect. The representative informed that he would like to visit Plexconnect 2023.

The VBSMs were designed so that each company would present itself to the buyer exchanging contacts and showcasing its products virtually. This effort will be followed up with emails, brochure sharing and ultimately export orders.

11th PLASTIC JAPAN 2022, DECEMBER 7-9, 2022, MAKUHARI MESSE, Tokyo, Japan | Southern Region

The PLEXCONCIL in its endeavour to promote the export of plastics products took part in 11th PLASTICS JAPAN 2022 Show, Tokyo, Japan for the first time with 6 exhibitors.

About the Show:

PLASTIC JAPAN 2022 the World's Leading Show for Advanced Plastics & Equipment. It is a specialised show for Plastic, CFRP, Cellulose Nano Fiber and Bio Plastic. The show gathers all kinds of plastics/composite materials as well as its manufacturing and processing technologies. More than 50,000 high quality visitors are expected to gather at this event. With 850 renowned exhibitors across the global this show will be the right place to find your partner in this region. Comprehensive Plastic Show from Manufacturing machines to material. Find Business Partners both Plastic Manufacturers and Plastic Users

Indian Pavilion:

The Indian pavilion had 6 Exhibitors displaying products like masterbatches, packaging, value added products. The exhibition provided a great platform for the first-time exhibitors at the show to create awareness about the Indian Products in Japan. The Indian Pavilion has made a footprint at the show even though this was the first time the Plexconcil had organized the Pavilion in Japan.

The Embassy of India, Tokyo, Japan

Shri. Shishir Kothari, First Secretary (Commerce), the Embassy of India, Tokyo, Japan visited the India Pavilion to interact with the exhibitors and to understand the overview of the Plastic Industry in India.

The main points discussed were:

1. Mounting a buyers delegation to visit PlexConnect 2023 to India to be held from June15-17, 2023 at Mumbai, India
2. To recommend any other plastic related show in Japan
3. To get more information about the FIBC buyers in Japan as FIBC has huge potential for India companies to cater to the Japanese market.
4. To share the data and other important events pertaining to the Plastic Industry
5. Proposal to host a standalone Plastics Exhibition/ BSM in Tokyo during 2023 instead of participating in bigger shows to get more mileage for Indian companies.

Saurashtra Plast 2022 Exhibition (14th – 17th December 2022), Rajkot | Western Region

Plexconcil – The Plastics Export Promotion Council supported Saurashtra Plast 2022 exhibition organized by the Saurashtra Plastics Manufacturers' Association (SPMA) at Racecourse Ground, Rajkot, Gujarat from 14th December, 2022 to 17th December, 2022.

PLEXCONCIL set up the booth at this important exhibition of Plastic Industries and technologies. Plexconcil interacted with numerous Plastic product manufacturers and traders during this exhibition. Visitors were briefed about opportunities for Plastic Exports and support provided by Plexconcil in boosting Plastic exports. Visitors and exhibitors were also briefed about PLEXCONNECT 2023: the first ever export-focused event for plastics. The Plexconcil was represented by Mr Naman Marjadi, Assistant Director, Regional Office- Ahmedabad at this exhibition.

Capacity Building Program on "Technology Up-gradation & Opportunities for Exports - Plastics Sector" held on 15th December 2022 (Thursday) at Hotel Siddharta, Nazarbad, Mysuru | Southern Region

Plexconcil jointly with District Industries Centre (DIC), Dept. Industries & Commerce; Govt. of Karnataka organised for a **Capacity Building Program on "Technology Up-gradation & Opportunities for Exports - Plastics Sector"** in association with Karnataka State Polymers Association (KSPA), DGFT, CIPET, and MSME DI on **15th December 2022 (Thursday) at Hotel Siddharta, Nazarbad, Mysuru.**

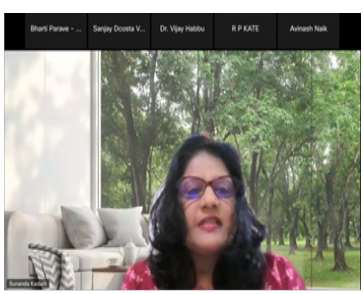
The main purpose of the program was to enlighten the participants on the latest trends and technologies deployed in plastic manufacturing and also the procedures of starting a successful export business and to highlight the export competitiveness of the Mysuru region in the global market. This program also provided a unique platform to share knowledge, exchange new ideas and help to understand challenges faced by existing exporters, and also enlighten the new entrants from the MSME sector on opportunities for export during these tough times to explore and take advantage of the international markets.

Speakers:

- Shri Geeta Kodolli., Asst. DGFT, O/o. Additional DGFT, Bangalore
- Shri. Gopinath Rao, IEDS, Dy. Director, MSME – Govt. of India, MSME DI, Bangalore
- Shri. Dinesh, Joint Director, Dept. of Industries & Commerce, Govt. of Karnataka, Mysuru
- Shri. R.T. Nagaralli, Director & Head, CIPET-CSTS, Mysuru
- Shri. V. Vijay Kumar, President, Karnataka State Polymers Association, Bangalore
- Shri. Arun Bhagariya, President, Mysore Plastics Association, Mysore
- Shri. Ruban Hobday, Regional Director-South, PLEXCONCIL
- Senior Officials from SBI Bank

Webinar on "EU Plastics Recycled Materials updates (1616/2022/EC) for the food contact applications" – 16th December 2022| Western Region

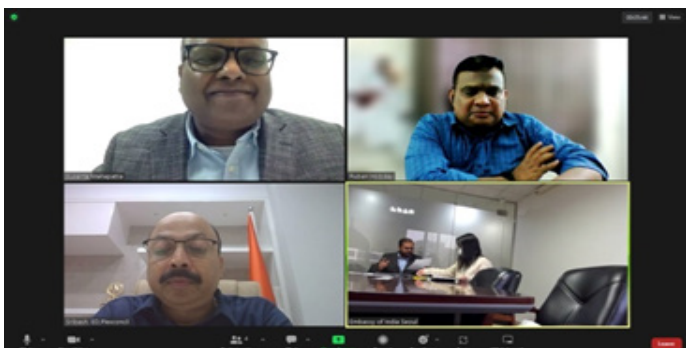
The Plastics Export Promotion Council (PLEXCONCIL) organized a Webinar on "EU Plastics Recycled Materials updates (1616/2022/EC) for the food contact applications on 16th December, 2022. Regulation (EU) 2022/1616 aims to increase the use of recycled plastic material in contract materials while ensuring the safety of recycled plastic. Being EU is bigger and major market for Indian products, it is very important for us to know the depth of regulation. Therefore, Plexconcil organized educational webinar with the Intertek Assuris.



Mr. Dhruv Sayani, Plexconcil Panel Chairman of Consumer & Housewares Products and Director of M/s. Crystal Plastics & Metallizing Private Limited gave welcome address for the webinar. Ms Sunanda Kadam, General Manager-India, Intertek Assuris spoke in detail about the webinar topic. The webinar ended with Vote of Thanks by Ms Bharti Parave, Assistant Director, Plexconcil.

Virtual Meeting with Embassy of India, Korea, regarding Council's Participation at KOPLAS 2023 Show on 19th December 2022| Southern Region

A Virtual Meeting was held on 19th December 2022 with the organisers of KOPLAS 2023 show and the Council under the guidance of Embassy of India, Korea with regard to Council participation with its members, since KOPLAS 2023 show being one of the leading exhibition for the plastic industry.



Meeting to finalise the necessary protocols with ITDC General Manager - Hotel Ashok, New Delhi | Northern Region

A meeting was held between Shri Ashutosh Kumar, Regional Director, Northern Region and General Manager, Smt. Anupama Kaul towards the necessary protocol and support offered by the Hotel Ashok for the various buyers and other eminent dignitaries during PLASTINDIA 2023 scheduled between February 1 - 5, 2023 at Hotel Ashok, Chanakyapuri, New Delhi.

Meeting with Cluster Development Commissioner, Haryana | Northern Region

Shri Ashutosh Kumar, met with the Cluster Development Commissioner, Haryana for the mutual cooperation between the Council and the cluster located at Haryana. The objective of the visit was a way forward towards achievements of the vision of our Hon'ble Prime Minister of India on becoming Trillion economy. It was also mutually agreed that the DIC of Haryana and the Council North region will work together for the awareness amongst the plastics fraternity for the special incentives and subsidies that are offered by the Government of Haryana through the means of doing seminars, workshops etc.

63rd Annual General Meeting of Indian Plastics Federation(IPF), 21st December 2022 | Eastern Region

IPF organized the above meeting on 21st December 2022 in Kolkata. Mr Nilotpal Biswas, RD represented the Council at this meeting.

Meeting with Joint Secretary - December 22, 2022 - Vanijya Bhawan, New Delhi | Northern Region

A meeting was held with Mr. Manish Chaddha, Joint Secretary to discuss the anomalies in the HS Codes that have been marked under the purview of the PLEXCONCIL. It was brought to the notice that there have been certain HS Codes like Masterbatches, FIBCs, Woven Sacks & Bags which have been left out and not marked under the umbrella of PLEXCONCIL. This results in the discrepancy of the export data furnished by DGCI&S which do not cover the HS Codes to fall under PLEXCONCIL vis - a vis out Data which takes these HS Codes under our Council leading to reduction in value of plastic exports furnished by the various Government sites. Mr. Hemant Minocha, Chairman, Mr. Sribash Dasmohapatra, Executive Director, Mr. Ashutosh Kumar, Regional Director represented the Council at the above meeting.

Meeting regarding 3rd INDO CIS working group - December 22, 2022 - Vanijya Bhawan, New Delhi | Northern Region

A meeting was held to discuss the 4th Working Group on promoting Trade and addressing various bottlenecks with CIS countries. Our council gave inputs on key issues relating to Russia which needs to be addressed for the enhancement of trade between India and the CIS region.

Mr. Hemant Minocha, Chairman, Mr. Sribash Dasmohapatra, Executive Director, Mr. Ashutosh Kumar, Regional Director represented the Council at the above meeting.

PLASTINDIA RBSM Committee Meeting 26th December 2022 | Eastern Region

PLEXCONCIL organized the above meeting in order to brief the RBSM sub-committee on the status of the event. Mr Sribash Dasmohapatra, ED, Mr Nilotpal Biswas, RD, Mr Dayanidhi attended the meeting.

Outreach Program on Indo-Australia ECTA and Indo-UAE FTA – 28.12.2022 | Eastern Region

Addl. DGFT Kolkata office jointly with PLEXCONCIL(ER), EEPC India (ER), GJEPC organised the above program on 28.12.2022 in Kolkata. Special address given by Ms Rowan Ainsworth, Consul General, Australian Consulate in Kolkata. Mr Bipin Menon, Development Commissioner, Noida, SEZ, Mr Anand Mohan Mishra, Dy. DGFT, Kolkata, Mr Lalit Agrawal, Regional Committee Member, PLEXCONCI(ER) & Chairman, Glen Industries Pvt. Ltd. delivered an address/presentation during the program. Mr Nilotpal Biswas, RD along with Councils (ER) members attended the program.

Participation at the INDUSTRY HACKATHON at SHARDA UNIVERSITY CAMPUS - DECEMBER 28, 2022 | Northern Region

The Council Delhi office participated at the “INDUSTRY HACKATHON” organised by Laghu Udyog Bharti, MSME and Sharda University. The event marked a special invitee from MSME, LAGHU UDYOG BHARTI and professors from SHARDA UNIVERSITY, Ministry of Heavy Industries, India Investment Forums.

The event was huge success and was very well attended by the key Industry players, Top Government Officials and the distinguished guests and Alumni from SHARDA UNIVERSITY. The event was an effort of the Council Northern Region office towards enhancing the membership growth from the NORTHERN REGION. There were lot of positive response from the industry available towards taking up the membership from the Northern Region.

One of the key important aspects that was brought to our and MSME focus from the industry was the lack of Clusters especially in Northern Region and big industry players urged our Council along with MSME to resolve these issues as Cluster Development is the need of the Hour. They emphasised on the fact that the distinct plastic industries are being promoted in the name of the clusters and the MSMEs and the Council have been made to believe the same although efforts should be to highlight the same on ground reality to realise the vision of Make in India

Mr. Ashutosh Kumar, Regional Director and Mr. Anuj Sharma gave the presentation at the conference focussing on the membership growth and promoting PLEXCONNECT Exhibition amongst the audience.

Mr. Ashutosh Kumar, Regional Director (North), Mr. Anuj Sharma, Assistant Manager & Mr. Ashok Kumar, represented the Council at the above meeting.

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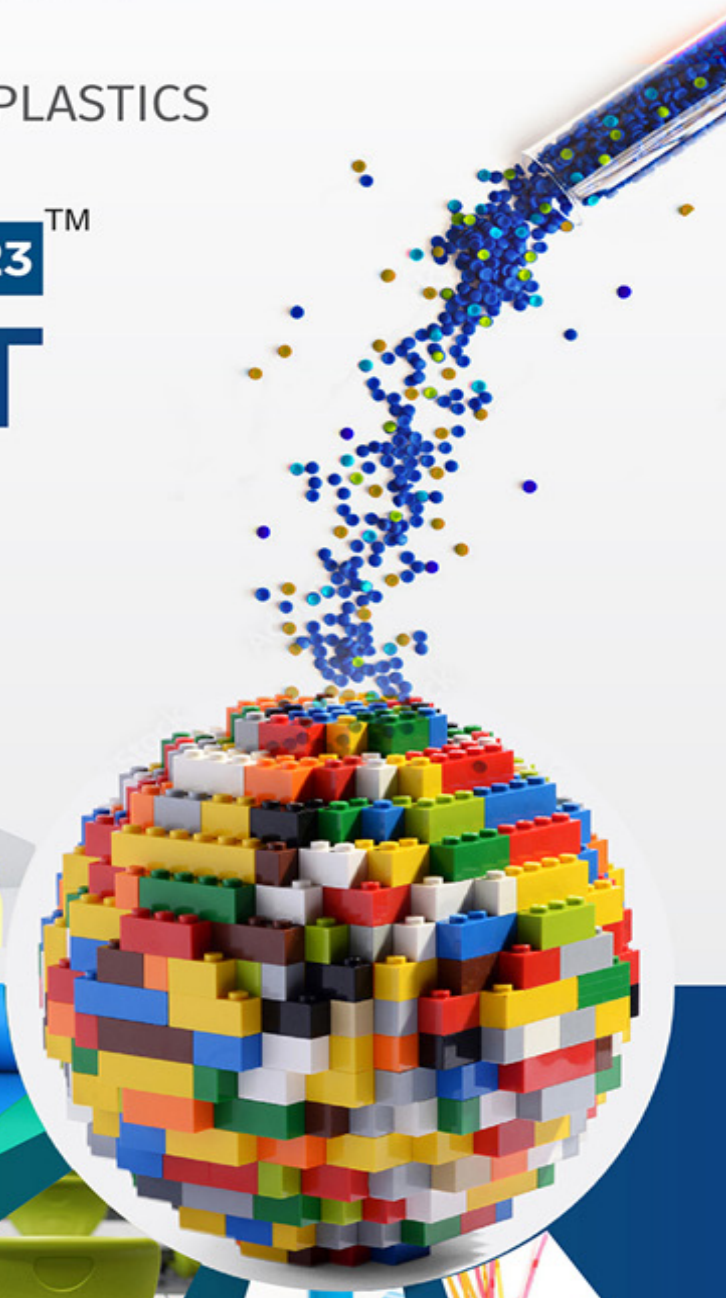

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Arun Singhal,

Founder – Source One

More Buying Power to Processors

As a net importer of polymers, Indian processors are no stranger to the vagaries of polymer supply. With long term demand with increasing industry applications remain robust, fast tracking capacity additions is the key to leap frog growth of the segment. However, in the short term, creating steady and reliable polymer supply could go a long way in bridging the demand-supply gap and this is where Source.one has firmly embedded themselves.

Source.one is India's first tech enabled, full stack petrochemical distribution company and have grown to become one of the largest players in this domain in India clocking 1600+cr revenue the last FY 2022. With a strong interplay of distribution network and an asset light model we transact with over 15,000+ plastic processors across India, deploying 500+ transporters to tap over 700+ districts across the nation.

Providing buyers and sellers of petrochemicals the right access to the right products at the right price and application of easy to use and prevalent technology such as WhatsApp and Google API to connect 97% of the entire Indian market, Source.one fills the existing gaps in trade and provides a full end to end service aspect that handles its commerce, logistics, and payments verticals. By cutting down the high turnaround time of the traditional method of procurement & excess stock liquidation from hours to just a few minutes, Source.one maximizes efficiency and effectiveness of MSME plastic processors across India.

Founded by Arun Singhal, Source.one deploys a strong interplay of Technology, Operational Excellence and Data science. It is driven a strong team of Professionals who come from 17 difference Industries. It has a strong team of Engineers, Bankers and Data enthusiasts, and has created a highly intuitive Platform to serve Indian MSMEs

A modern-day evangelist and alumnus of Hindu College and MDI, Arun Singhal has a deep knack of solving Distribution Problems, through innovative usage of Technology and Processes. He has seen, and effected disruption from close doors, across Industries as varied as Derivatives and Road Transportation, to now Chemicals Distribution. Arun is a well-published author in Distribution and commodities, across Print and Digital Media. Arun is an alumnus of Hindu College, Delhi and MDI, Gurgaon.

Plexconnect in interview with Arun Singhal (excerpts)

Source One has seen spectacular success since staring operations in 2018 to touch Rs. 1600 crores in FY 21-22. To what do you attribute this success?

Intent. Our Intent was always to solve a problem; Rest everything will follow: volumes, profitability, growth.

How does your business model differ from traditional polymer buying practices?

We are very heavy on networking. We don't try to create or own everything, but rather work with Partners to get the best out of everyone: Supply, Demand, Technology, Logistics, etc.

This allows us to focus on our core DNA: Create Value, Distribute Value, and Solve Problems.

What are the unique advantages that your platform brings to the polymer industry, especially MSME sector that is spread across the country?

It allows everyone to participate in the Eco-system: irrespective of your application, geography or Scale. We believe that Polymer Ecosystem still has a huge upside to achieve. And this will be achieved if the industry takes along everyone together.

How do you ensure the product quality and transparency in pricing of the polymers being traded on your platform?

We have a very robust process of Product selection, filtering and on-boarding. We have a partnership approach towards our Suppliers, which include some Highly respectable names.

On Transparency point, since we are a Tech-heavy Distributor, transparency comes naturally. Our Tech is designed to create synergies across the eco-system: Supply, Demand, Logistics and Finance: 4 pillars of Polymer Ecosystem.

Source One website mentions that it has mapped 95% of all manufacturing hubs in India but the customer base is 2000 or 5% of the plastic processors count in India. Why is it so and how do you plan to expand the reach?

Let me clarify: The number 2000 is active buying Customers in any given quarter. These are manufacturers who procure their Polymers through Source.one, and include both big Manufacturing houses, and MSMEs. This number is growing very fast.

As far as touch point is concerned, Our Demand Network has already mapped 95% of all Manufacturers, and interacts daily with them through our Tech.

Further, could you also help us understand the reasons for average order size being less than 8 MT per customer per month on your platform?

That's not true. Our avg Order size has increased to 19 mt in FY2023.

We were always v strong in MSMEs, but FY2023 has seen a large no of Corporate Houses starting business with us, thereby increasing the avg order size.

What are the typical challenges faced by customers since the business is through WhatsApp?

Here is a quick Snapshot of our communication modes: WhatsApp + Email for Price Udates, Mobile App for more complex information, eg forward or scheduled dispatches, 1on1 Meetings & Calls for awareness campaigns, and 12*7 Order Management Team for Issue resolutions.

While MSMEs largely prefer WhatsApp, we have different segments getting serviced by Relationship Managers as well.

On WhatsApp, there was initial a self-doubt as Transaction size is high. Overtime the Industry has adopted WhatsApp, along with other modes.

Our Mobile App was launched last year, and 50% of all orders happen on Mobile Now. Its an end-to-end ecosystem, and India's only Mobile App to purchase Polymers, in a matter of few minutes.

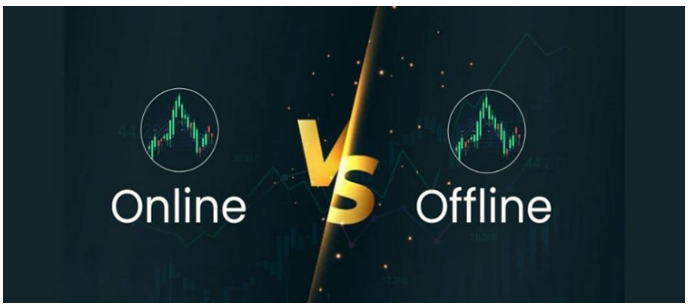
The plastic processing industry is even presently credit driven in terms of their polymer purchasing (the norm being 15 to 30 days). How does your platform address this issue?

We have both channel partnerships, as well run our own book on Credit. Eventually we aim to institutionalise the Trade credit, thereby opening a whole new funnel for Industry to prosper.

What are the demand/ supply trends in polymer, both globally and in India?

Overtime, Indian Polymer Market is becoming more stable as we get connected with the Global Supply chain. The vagaries of demand are also lower, given more applications.

Globally, the opposite is the case. Supply chain disruptions, and economic fluctuations are pushing the world towards more volatility. This is nudging the world to look at India, both for Demand and Supply.



Online vs. Offline – what are your views on the future of polymer trading?

I think it will be "&" and not "vs". Digitalization will grow, remove inefficiencies, ease communication, and unlock more Opportunities. While Supply chains will continue to be Relationships-driven and driven by people. Overall, the employment in Industry should have a very healthy growth.

What can we expect in the future from Source One?

Source.one aims to contribute immensely towards up-skilling in Supply Chain Management. The subject is still not mainstream and hasn't evolved in content. We have created internal courses and frameworks, and plan to tie-up with relevant Institutions to contribute more towards this subject. We will continue to create an ecosystem, and for benefit of everyone. Source.one will be the Tech partner for the Polymer Industry.

CAPS AND OTHER CLOSURES OF PLASTICS

Caps and closures play an important role in packaging due to their ability to provide protection, safety and convenience. It includes items such as threaded cap, lug cap, droppers, twisted dispensing cap sprayers and orifice reducers. Caps and closures of plastics find use in household products, food & beverages, cosmetics, pharmaceuticals etc. The product is classified under Subheading 392350 of the Harmonized System (HS) of Coding.

World-wide import of Caps and closures of plastics is valued between USD 9-10 billion per year.

- In 2021, top-5 exporting countries of Caps and closures of plastics were: China (17.1%), Germany (11.8%), United States of America (8.7%), France (7.3%), and Italy (5%).
- Likewise, top-5 importing countries of Caps and closures of plastics: United States of America (13.9%), France (6.9%), Germany (6.8%), Canada (4.5%) and Netherlands (4.1%).

In 2021-22, India exported 26,967 tonnes of Caps and closures of plastics valued at USD 103.2 million to the world. United States of America was the top export destination in terms of value while Nepal was the top export destination in terms of volume.

Destination Country	Value (USD Mn)	Destination Country	Qty. (Tonnes)
United States of America	14.90	Nepal	4,439
United Arab Emirates	13.52	United Arab Emirates	2,822
Sri Lanka	5.23	United States of America	1,963
Nepal	4.20	Bhutan	1,606
Zimbabwe	3.85	Sri Lanka	1,343
Kenya	3.54	Zimbabwe	1,335
Indonesia	3.51	Kenya	1,054
Nigeria	3.51	Nigeria	747
United Kingdom	2.80	Indonesia	619
Saudi Arabia	2.49	Saudi Arabia	551

Source: Department of Commerce, Govt. of India, Plexconcil Research

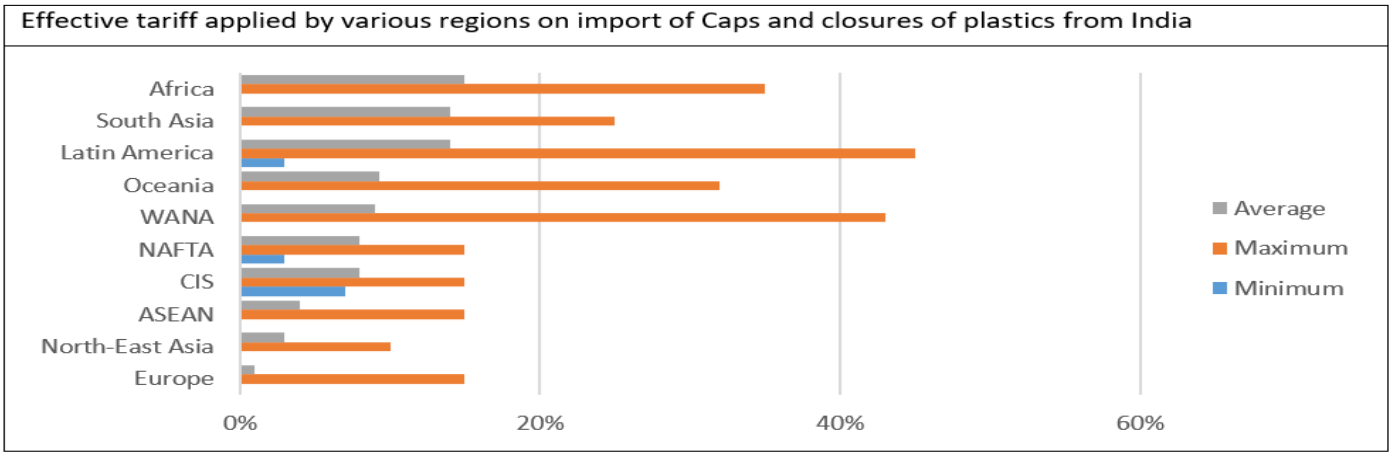
In 2021-22, India imported 6,571 tonnes of Caps and closures of plastics valued at USD 65.9 million from the world. China was the major supplier to India.

Source Country	Value (USD Mn)	Source Country	Qty. (Tonnes)
China	18.02	China	1,834
United States of America	10.05	Nepal	919
Germany	6.68	United States of America	659
France	4.12	Germany	575
Singapore	3.47	Spain	339
Nepal	2.72	Thailand	338
Spain	2.08	France	308
Thailand	2.00	Malaysia	202
Taiwan	1.74	United Kingdom	197
United Kingdom	1.61	Singapore	126

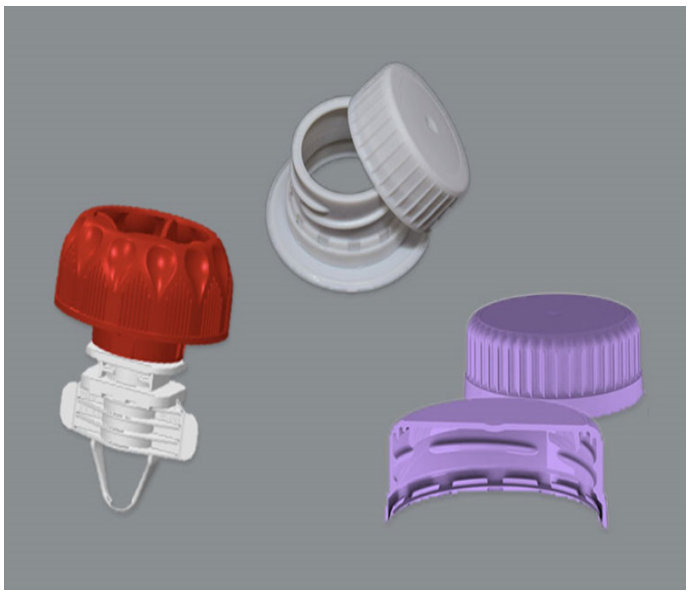
Source: Department of Commerce, Govt. of India, Plexconcil Research

Indian firms dealing in Caps and closures of plastics have immense potential to export to destinations like Australia, Japan, Norway, Singapore, South Korea, Switzerland, Thailand, United Arab Emirates, United Kingdom and Viet Nam.

There is zero duty applicable on import of Caps and closures of plastics from India in South Korea and Japan, under Comprehensive Economic Partnership Agreement; and in Bhutan under India- Bhutan Trade, Commerce & Transit Agreement Tariff. The recently signed India-Australia Economic Cooperation and Trade Agreement also allows for zero duty import of Caps and closures of plastics from India into Australia. Import of Caps and closures of plastics from India is eligible for preferential tariff in the United Kingdom as well as the UAE under India-UAE Comprehensive Economic Partnership Agreement. Some of the ASEAN countries like Cambodia, Thailand, Viet Nam and Laos also allow zero duty imports of Caps and closures of plastics under the ASEAN-India Free Trade Agreement. Caps and closures of plastics are eligible for zero customs duty in Brunei and Singapore.



Source: Market Access Map, Plexconcil Research



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Central Bank Digital Currency (CBDC) – E Rupee

In December 2022, the Reserve Bank of India (RBI) launched the pilot for its digital rupee — India's very own digital currency. A central bank digital currency (CBDC) is a legal tender issued by a central bank in digital form. It is the same as a fiat currency and it is exchangeable one-to-one with government-issued money. Simply put, the digital rupee is the same as a banknote or coin that we use daily, only it is in a digital form.

The central bank has identified eight banks for the phase-wise pilot launch of the retail digital rupee. Four banks including State Bank of India (SBI), ICICI Bank, YES Bank, and IDFC First Bank are taking part in the first phase of the pilot programme while Bank of Baroda, Union Bank of India, HDFC Bank, and Kotak Mahindra Bank will join the pilot in the second phase.

Anil Kumar Bhansali, Head of Treasury at Finrex Treasurt Advisors helps us understand what the E-Rupee is, how it works and what are its benefits.

What is E-Rupee?

E-Rupee is a digital currency in the same denomination as physical notes, the difference being physical notes are in your wallet while E-Rupee is in e-wallet. As RBI issues physical currency, it issues digital currency that can be stored in one's mobile phone wallet. It is a legal tender and all rules governing printing of currency will be applicable to E-Rupee too.

How does it work?

One needs to have some money in the Bank account, an android mobile phone and a digital rupee wallet app provided by the Bank (in which you have the account). E-Rupee app does not support iPhone at present.

E Rupee-W

The RBI has operationalised two types of pilot projects of CBDC - First pilot in Digital rupee is the Wholesale Segment (e rupee-W) operationalised from 01/11/2022. The use of this pilot is settlement of secondary market transaction in Government Securities. It would be used to make inter-bank money market more efficient. Settlement in Central Bank money would reduce transaction costs by pre-empting the need for settlement guarantee infrastructure or for collateral to mitigate settlement risk. Going forward, other wholesale transactions and cross-border payments will be the focus of future pilots, based on learnings from this pilot. 9 Banks have been identified for participation in the pilot.

E Rupee-R

RBI launched the pilot project of retail digital rupee (E Rupee-R) on 1st December – 2022 comprising of select banks at select locations and select closed group of participating customers and merchants. The pilot covered 4 cities viz. Mumbai, Delhi, Bengaluru and Bhuvaneshwar to be later extended to Ahmedabad, Gangtok, Guwahati, Hyderabad, Indore, Kochi, Lucknow, Patna and Shimla. Four banks Viz SBI, ICICI, Yes and IDFC First

Banks will initially participate in the pilot project to be later extended to Bank of Baroda, Union Bank of India, HDFC Bank, Kotak Mahindra Bank. The scope of the project may later be extended to include more users, banks and locations.

Features of E Rupee-R

1. Legal tender in the form of digital token
2. Same denominations as physical/paper currency.
3. Distributed through financial intermediaries – i.e. Banks.
4. Users can participate through the digital wallet offered by the participating banks and stored on mobile phone devices
5. Transactions can be both person to person (P2P) or person to merchant (P2M).
6. Payment to merchant locations can be made using the QR codes displayed at merchant locations.
7. Trust, safety and settlement finality from RBI.
8. No interest once the money is converted to E Rupee from the Bank account.
9. It can also be converted to other forms of money, like deposits with Banks.
10. The pilot project will test the robustness of the entire process of digital distribution and retail usage in real time.

How does the E Rupee-W wallet work?

If one is a customer of the four banks at the four cities and you want to try out the E Rupee you can reach out to your Branch Manager and make a request for an e-mail which would allow you to download the app. This would be at the discretion of the bank. One the app is downloaded and the KYC process is done one can transfer money from the linked (presently not linked) Bank account to the digital wallet. Amount of any value can be transferred and you have the liberty to choose the denominations. For eg if you want to transfer Rs. 5500 it could be split into one Rs. 2000, two Rs. 500/-, five Rs. 200/-, 10 Rs. 100/- and 10 Rs. 50/- or one can transfer all 110 as Rs. 50/-. All denominations are available on the app. Payments to persons or individuals will happen from one app to another app while that to merchants will happen as QR-enabled. The payments process is similar to that of UPI. The app user may not necessarily be tech savvy. The transfer is instant and will be reflected in the E Rupee wallet. At present the wallet can be refilled from any Bank account as it is not linked to any particular Bank account but money will only be remitted to the Bank account whose E Rupee app you are using.

ADVANTAGES OF E RUPEE-W WALLET

1. It is secure from counterfeit notes and theft. No trip to ATM to withdraw cash.
2. Even if mobile is lost the amount in the digital wallet can be accessed and transferred to a new mobile number.
3. UPI may have the risk of the Bank account being compromised but the risk is not there with E Rupee.
4. As in case of physical rupee there is no trail of the payment made to which account and it is just like physical cash being given. In case of UPI since it is Bank to Bank transfer there is a trail.
5. Every transaction is tokenised and hence it is unique and secure. A problem in internet connectivity will not allow token to be generated. Thus internet connectivity will be the only risk for E Rupee.

About the Author

The article is written by Mr. Anil Kumar Bhansali, Head of Treasury, Finrex Treasury Advisors LLP, has a rich experience of Banking and Foreign Exchange for the past 38 years. He was a Chief Dealer with an associate bank of SBI.

DJIBOUTI

Economic overview

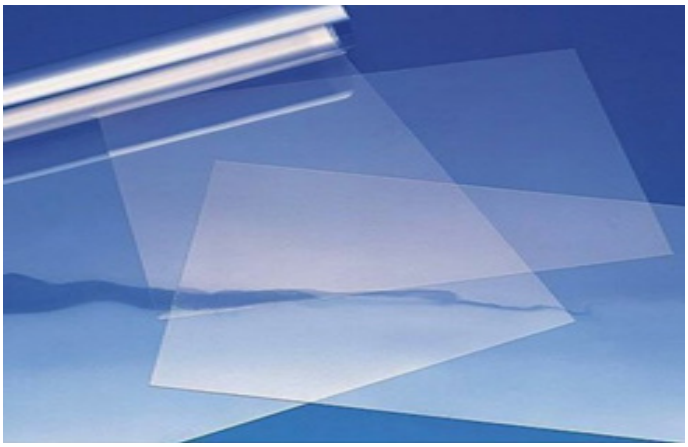
Djibouti is located in Eastern Africa, bordering the Gulf of Aden and the Red Sea, between Eritrea and Somalia. It has an area of 23,200 square kilometres and a population of 1.0 million. Djibouti's economy is based on service activities connected with the country's strategic location on the Red Sea which holds significant value in international trade and shipping. Due to its strategic location, the Government of Djibouti has formulated plans to turn Djibouti into a major commercial and shipping hub for East Africa; and to establish Djibouti International Free Trade Zone – Africa's largest free trade zone. In recent years, Djibouti has experienced stable economic growth as a result of relative political and macroeconomic stability.

Economic indicators		2019	2020	2021
Nominal GDP	*USD Billion*	3.1	3.2	3.4
Nominal GDP per capita	*USD*	3,173	3,220	3,365
Real GDP growth	*%*	5.5	1.2	4.8
Total population	*Million*	0.97	0.99	1.00
Average inflation	*%*	3.3	1.8	1.2
Total merchandise exports	*USD Million*	195.8	250.0	384.2
Total merchandise imports	*USD Million*	5,353.1	5,461.3	6,670.9

Source: IMF, TradeMap

Djibouti has been a member of WTO and General Agreement on Tariffs and Trade. Djibouti is a part of Common Market for Eastern and Southern Africa (COMESA), and is currently participating in the second phase of the African Continental Free Trade Area (AfCFTA) negotiations.
Trade overview

India and Djibouti engaged in bilateral trade worth USD 678 million in 2021-22. During the year, India's exports to Djibouti were valued at USD 640 million while India's imports from Djibouti were valued at USD 38 million.
The major items of export (2-digit HS) from India to Djibouti are sugar (USD 248 million), rice (USD 167 million), motor vehicle (USD 36 million), iron and steel (USD 22 million) and plastics and articles thereof (USD 21 million). Likewise, major items of export (2-digit HS) from Djibouti to India are kidney beans (USD 9.2 million), gas oil (USD 7.6 million) and electrical parts of machinery n.e.s. (USD 6.4 million).



For products that come under the purview of PLEXCONCIL, the trade is completely in favour of India with exports of USD 22.5 million to Djibouti and a similar trade surplus. The major items of export to Djibouti being:

- Plastic raw materials (45.6%)
- FIBC, Woven sacks, woven fabrics, and tarpaulin (33.9%)
- Plastic sheets and films (8.2%)

Djibouti's annual plastics imports are valued at USD 458 million approx. Its plastic imports are largely catered to, by China (53%), Saudi Arabia (14%) and the United Arab Emirates (12%). India holds a good standing in Djibouti's import of below mentioned plastic products:

- FIBC, woven sacks & tarpaulins– Market share of 33.7% (Rank 1)
- Medical items of plastic - Market share of 15.7% (Rank 2)
- Writing instrument & stationery- Market share of 12.1% (Rank 2)

Export potential for India

Our internal research indicates that India's export of PLEXCONCIL member products to Djibouti has the potential to grow by USD 431 million. Details of product panels and their export potential to Djibouti is provided below:

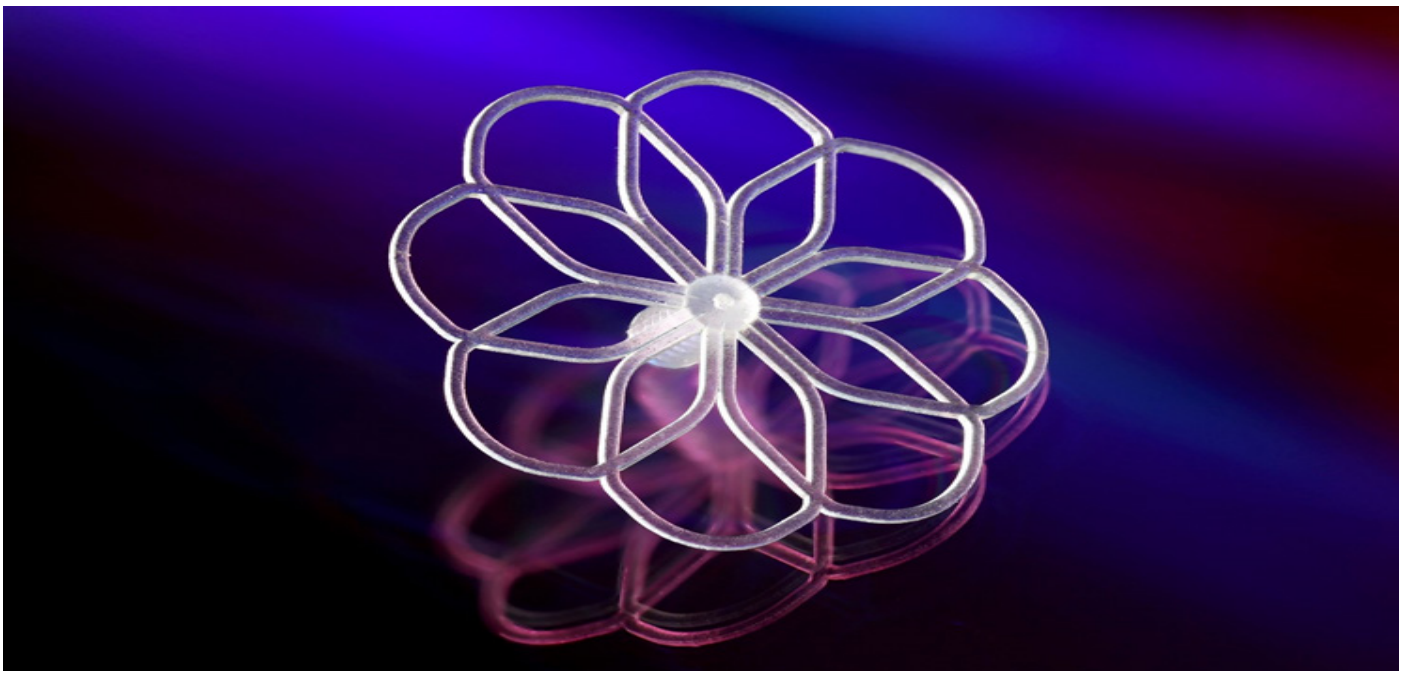
Product panel	Djibouti's import from India	Djibouti's import from world	India's export to world	Export potential for India
	USD Million	USD Million	USD Million	USD Million
Plastic raw materials	10.3	235.9	3,995.9	224.6
Consumer & houseware products	0.5	82.4	1,460.6	80.7
Plastic films and sheets	1.9	33.8	1,905.1	31.2
Packaging items - flexible, rigid	0.4	22.3	595.8	21.9
FIBC, Woven sacks, Woven fabrics, Tarpaulin	7.6	22.6	1,682.4	14.6
Floorcoverings, leathercloth & laminates	0.1	14.2	770.2	14.1
Plastic pipes & fittings	0.4	13.6	266.3	13.2

Source: TradeMap, Plexconcil Research

POLYMER PRICE TRACKER (DOMESTIC MARKET) DECEMBER 2022

High Density Polyethylene (HDPE) Oct-22 ↑ | Nov-22 ↓ | Dec-22 ↓	• HDPE prices dropped by Rs 1,000 per MT in December 2022 after a decline of Rs 11,000 per MT in November and increase of Rs 2,000 per MT in October 2022. • In December 2022, HDPE prices were reduced by Rs 3,000 per MT in the first week of the month and raised by Rs 2,000 per MT later.
Linear Low-Density Polyethylene (LLDPE) Oct-22 ↑ | Nov-22 ↓ | Dec-22 ↓	• LLDPE prices down by Rs 2,000 per MT in December 2022 after a fall of Rs 11,000 per MT in November 2022 and increase of Rs 2,000 per MT in October 2022. • In December 2022, LLDPE prices were lowered by Rs 4,500 per MT in the beginning of the month. However, later the prices were increased by Rs 2,500 per MT.
Low Density Polyethylene(LDPE) Oct-22 ↑ | Nov-22 ↓ | Dec-22 ↓	• LDPE prices fell by Rs 2,500 per MT in December 2022 after a decline of Rs 6,000 per MT in November 2022 and increased by Rs 3,000 per MT in October 2022. • In December 2022, LDPE prices were reduced by Rs 3,500 per MT in the first half of the month, but increased by Rs 1,000 per MT later.
Polypropylene (PP) Oct-22 ↔ | Nov-22 ↓ | Dec-22 ↑	• PP prices raised by Rs 3,000 per MT in December 2022 after a decline of Rs 10,000 per MT in November 2022. PP prices were unchanged in October 2022. • In December 2022, PP prices were up by Rs 1,000 per MT in the third week of the month and by Rs 2,000 per MT later.
Polyvinyl Chloride (PVC) Oct-22 ↓ | Nov-22 ↓ | Dec-22 ↑	• PVC prices increased by Rs 14,000 per MT in December 2022 after a decline of Rs 8,000 per MT in November 2022 and Rs 3,000 per MT October 2022. • In December 2022, PVC prices were up by Rs 10,000 per MT in the first half of the month and by Rs 4,000 per MT later.

Source: Industry, Plexconcil Research



Material Selection for Thin-Walled Micro-Molded Medical Devices

Polymer material selection for thin-walled micro-molded medical products will be under the rhetorical microscope during a session at the co-located Plastec West and Medical Design & Manufacturing (MD&M) West event in Anaheim, CA, next month. Patrick Haney, R&D Engineer at MTD Micro Molding, will discuss the requisite characteristics of various polymer categories to fulfill the demands of thin-wall molding and how to determine the optimal materials for a specific application. He will lean on real-world examples to illustrate his points.

In an article on your website, it says that one of the most common questions you hear from medical OEMs is: "How thin can you go?" So, let's start there: How thin can you go? And what are the primary benefits of thin-wall devices?

Patrick Haney: When it comes to achievable thin walls, the answer is, "It depends." One of the main factors is material choice. Can your design use a thermoplastic material that is better suited for ultra-thin walls, like liquid crystal polymer (LCP)? Or does your part functionality require other material characteristics, like the rigidity of PEEK, which is much more challenging for thin-wall molding? Or does your thin-wall design require multiple materials for an over-molded component?

LCP and PP are known for their thin-wall molding capabilities, having the ability to fill walls of about 0.002 in., depending on geometry. Polyesters and nylons are also great options.

The main benefits of thin-walled medical device components and implants are patient comfort, and the smaller a part can get, the smaller areas it can effectively monitor and treat. Miniaturization can broaden capabilities of these medical devices, and that goes hand in hand with thin-walled designs.

What are the primary considerations when attempting to achieve thin-walled features in a micro-molded part?

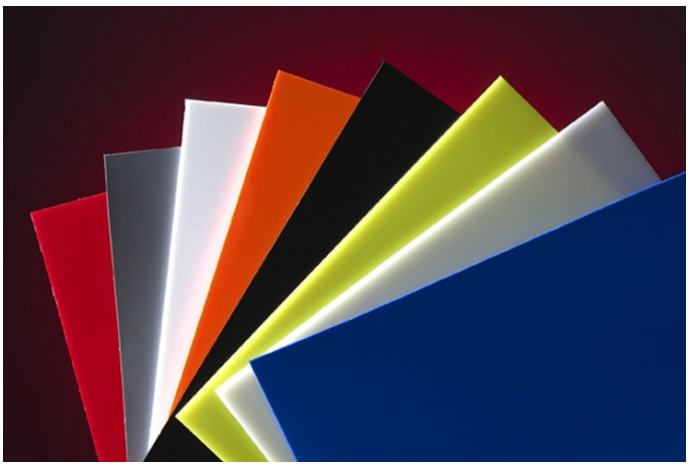
Haney: The two primary things to think about are material choice and part design. If you are forced into a material family due to the application of the device, you may be limited in how you can design certain features, like wall thickness.

The other aspect to consider is part design as it applies to injection molding. Ask yourself if you can change part features to better accommodate plastic part design for manufacturability. Although sometimes you are forced

to break rules to achieve your goal. For example, if there is a challenging part design that forces a less-than-ideal gating location, that can cause excessive pressure loss or rapid flow front cooling, which can make it more challenging to fill thin walls. Just because you have a material that is best for filling thin walls doesn't mean it will fill if the design is not optimized.

Which medical materials are best suited in these applications, and which ones may be more challenging?

Haney: Materials that are best suited are those that have a more linear polymer backbone. When they are flowing, the degree of entanglement is much less, which promotes lower viscosity. One example is nylon 6/6.



The more challenging materials are those that have higher degrees of entanglement or higher glass transition temperatures and melting points. In other words, it takes more heat to lower the viscosity. An example of this may be polycarbonate.

Do material properties change when they are used in micro-molding applications?

Haney: The molding process exposes materials to very high velocities, pressures, and shear rates for a very short period of time. This also means that the cooling rates a material is exposed to are extremely rapid and these conditions can result in unique microstructures that can occasionally affect mechanical and thermal properties. However, with the right tools and knowledge, anticipating that phenomena can result in the material demonstrating desirable properties, as intended.

One of the most common mistakes in micro molding is assuming that non-Newtonian behavior will demonstrate the same characteristics as in macro-molding situations.

What other factors should be considered when specifying thin-walled micro parts?

Haney: Considering the final device's intent and application conditions are really important for micro part design. Some things to consider include, but are not limited to: What is the application temperature? Does the device require any mechanical performance? How long is the device intended to perform its function? These questions are all critical because they may all impact the way the part is designed and manufactured. This is why working closely with your micro molder early about material options and achievable tolerances can set up a project for success.

What do you hope that conference attendees come away with from your presentation?

Haney: We want to stress the fact that getting involved with your micro molder as early as possible is in the best interest of the program going as smoothly as possible. There are a lot of questions that need to be answered when designing a device and many materials to choose from. I believe that a little bit of upfront education can go a long way when it comes to giving device designers the knowledge to ask the right questions and better equip them to take their programs in the best direction possible.

For a half-century, MTD Micro Molding has created some of the world's smallest components for challenging applications. It is exclusively focused on medical applications and provides medical device OEMs with a single source for micro molding projects from initial design to assembly and packaging.

This interview has been reproduced from plasticstoday.com

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International News

DoE Devises New Way to Recycle Single-Use Plastics

While recycling plastic has come a long way in these environmentally conscious times, there are still many strides to be made to fully recycle all post-consumer plastics. Scientists at the Department of Energy are among those trying to make some of these improvements. Their latest effort is a new method to recycle high-density polyethylene (HDPE) that turns it into a fully recyclable and even potentially biodegradable material, researchers said.

A team at the DoE's Institute for Cooperative Upcycling of Plastics (iCOUP) developed the approach, which uses a series of catalysts to cleave the polymer chains of HDPE into shorter pieces that contain reactive groups at the ends, researchers said. This allows the smaller pieces to be put back together to form new products out of a type of plastic that is easier to decompose, both in the lab and in a natural setting, they said.

Research Relevance

Right now one of the biggest sources of pollution is single-use plastic. HDPE is ubiquitous in these types of applications because of its strength, flexibility, longevity, and because it's cheap, researchers noted.

However, HDPE products are often produced from fossil fuels and, rather than being recycled after use, much of them are incinerated, dumped in landfills, or discarded in the environment. Moreover, even when HDPE is recycled, the quality of the resulting material is not as superior as the original product, researchers said.

The method that DoE researchers developed turns consumer HDPE into what are called telechelic macromonomers, which are "suitable for circular reprocessing," according to an abstract for a paper on the research published in the Journal of the American Chemical Society.

"Unsaturation was introduced into HDPE by catalytic dehydrogenation using an Ir-POCOP catalyst without an alkene acceptor," according to the paper. "Cross-metathesis with 2-hydroxyethyl acrylate followed by hydrogenation transformed the partially unsaturated HDPE into telechelic macromonomers."

Producing a Reusable Material

This direct repolymerization of the macromonomers produced a brittle material because of its low overall weight-average molecular weight, researchers said. Moreover, aminolysis of telechelic macromonomers with a small amount of diethanolamine increased the overall functionality of the material.

"The resulting macromonomers were repolymerized through transesterification to generate a polymer with comparable mechanical properties to the starting post-consumer HDPE waste," researchers wrote.

Moreover, depolymerization of the repolymerized material catalyzed by an organic base regenerated the telechelic macromonomers, which provides a pathway for the material to be recycled in a sustainable way, they said.

The ability to recycle HDPE through the DoE's novel approach could reduce the significant carbon emissions and pollution currently associated with this type of plastic, researchers said. It also creates a more circular economy by using HDPE waste plastic as a feedstock for a new material that can be recycled repeatedly without loss of quality, they said.

Source: Plastics Today

New Titanium Dioxide Pigment Reduces Masterbatch Carbon Footprint

A rutile titanium dioxide (TiO2) pigment designed to enhance processing performance in plastics applications, including polyolefin masterbatch, has been introduced by the Chemours Co. The grade reportedly achieves up to a 6% net reduction in the carbon footprint of the pigment manufacturing process through masterbatch production compared with conventional TiO2 pigments.

TS-1510, the newest pigment in Chemours' Ti-Pure Sustainability (TS) series, was developed to address customer challenges and improve their production rate and processing, said the company. A novel technology is used to produce this pigment with enhanced material bulk density to address these issues while improving profits and the processability of masterbatch.

The benefits to masterbatch producers include:

- Up to 12.5% processing energy reduction for plastics processing;
- improved line productivity, enabling up to a 30% increase in compounding;
- higher bulk density resulting in a 50% reduction in package height, reducing storage space and warehouse costs;
- easier and more complete unloading with faster feed rates;
- increased flowability driving efficiencies in energy and labor;
- enhanced handling through low dusting;
- packaging designed for ease of recycling and reduced material usage.

"The introduction of Ti-Pure TS-1510 reflects our commitment to developing new products that advance the state of the industries we serve," said Cherie Stancik, Product Development Manager, Plastics Segment – Titanium Technologies at Chemours. "In developing this innovative TiO2 grade, we assessed the chemistry and pigment design of the new product, as well as its performance in plastics applications, to deliver a solution with multifaceted benefits. There are currently no TiO2 plastics grades of comparable properties or extensive benefits in the open market today, and we're confident that the introduction of Ti-Pure TS-1510 will create lasting value for our customers."

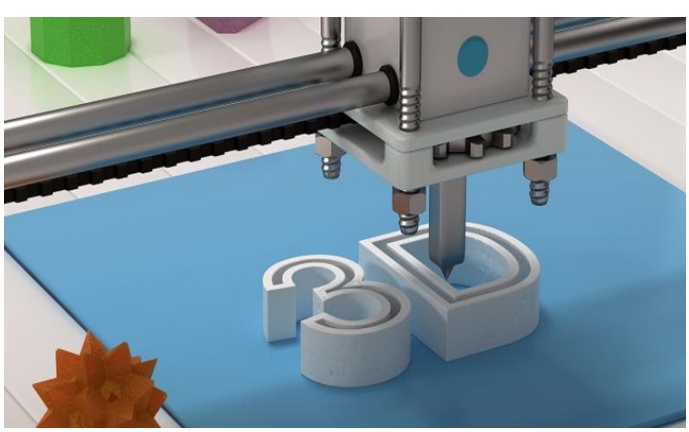
The new level of processing efficiency enabled by Ti-Pure TS-1510 will help direct and downstream customers reduce their environmental footprints individually and improve sustainability for the plastics industry as a whole, said Chemours in the announcement.

Source: Plastics Today

3D Printing Materials Market Soars ~26% Yearly

The 3D printing materials market earned $2,578.8 million in revenue in 2022 and is projected to rise by 25.9%, to capture $16,230.8 million by 2030 according to a P&S Intelligence report.

The research firm attributes grow to the snowballing use of 3D printing in manufacturing for mass customization and the rising demand for automobiles in developing countries.



In 2022, the plastic category dominated the market by volume with a share of 30+%. This is because plastic is cheap, easily available, and useful for a range of designs. Additionally, over other types, plastic materials provide a better resistance to abrasion, versatility, extreme temperatures, and shock, along with exceptional durability and flexibility.

Also, polymers are best suited for 3D-printing applications with a wide variety of colors and are lightweight. Plastics also endure stress and be easily molded into several forms. Hence, they are extensively demanded for additive manufacturing in the consumer goods, automotive, medical, and electronics industries in European countries.

Filament is most popular form.

In 2022, the filament form category had the largest volume share in the 3D printing materials industry. This can be ascribed to the usage of filaments in household objects, educational models, cars, and toys.

The most-commonly used filaments are polypropylene (PP), thermoplastic polyurethane (TPU), acrylonitrile butadiene styrene (ABS), nylon, polyvinyl alcohol (PVA), and polylactic acid (PLA). These polymers offer high strength, low cost, and wide application options.

In 2022, North America had the largest share in the market, of approximately 45%. Along with extensive adoption of the technology in product manufacturing for mass customization US and Canadian governments play a key role in boosting usage of 3D printing.

In 2022, Europe had the second-largest share of approximately 35%. That's primarily due to established aircraft manufacturing businesses, including EuroJet Turbo GmbH, Airbus SE, European Satellite Navigation Industries, and ArianeGroup.

Because 3D printing offers operators a lower risk of equipment failure, simpler supply chain, and low-end product weight, its acceptance has improved in the aerospace sector.

With a share of 40%, aerospace/defense is the largest end user in the market. Such companies have widely begun to 3D-print parts from titanium, one of the most-expensive materials for this industry. For instance, GE is using 19 3D-printed fuel nozzles in its GE9X engines, which are designed for the next generation of Boeing 777xs.

Source: Plastics Today

Performance Digitization Reveals Sustainability of PP Compounds

Hexagon's Manufacturing Intelligence division and thermoplastic compounder Sumika Polymer Compounds Europe (SPC Europe) have partnered to digitize the performance of new sustainable automotive-grade polypropylene (PP) compounds, enabling engineers to design components that are more recyclable and offer a lower carbon footprint for future vehicles.

"Limited material behavior data is a barrier to sustainable e-mobility innovations because automotive engineering teams have not been able to put new materials through the rigorous virtual durability and safety tests required for automotive endorsement," said Guillaume Boisot, head of the Materials Centre of Excellence at Hexagon. "Our unique multi-scale material modeling technology accelerates the adoption of SPC Europe's ground-breaking recycled materials by making it possible for product development teams to accurately simulate a component and subject it to established automotive engineering test and validation."

This vital engineering data is the result of a long-term partnership between the two companies, providing product development teams the ability to evaluate the suitability of replacing traditional engineering plastics with GF-PP compounds in new designs to address carbon-neutral targets.

Sumika Polymer Compounds' Thermofil HP short glass-fiber polypropylene (GF-PP) and Thermofil Circle recycled polypropylene (GF-rPP) materials benefit from sustainable manufacturing and recycling processes and offer carmakers performance equivalent to incumbent engineering plastics, but with an up to 60% lower carbon footprint. A growing proportion of today's PP components are recovered and recycled compared to polyamides (PA), of which up to 70% are utilized in waste-to-energy initiatives or finish up in landfill, but there remains substantial room for improvement. These

new Sumika recycled PP compounds are designed for the circular economy, contributing to plastic waste reduction at vehicle end-of-life.

"Our Thermofil short-glass-fiber reinforced polypropylene compounds offer equivalent performance to traditional engineering plastics while providing a much lower carbon footprint, which makes them highly suitable to meet design challenges that sustainable e-mobility brings," said Bruno Pendélio, Marketing Manager for SPC Europe. "Combining our efforts with Hexagon allows us to support the race toward carbon neutrality by further lightweighting our customers' automotive components, reducing physical material testing and prototyping."

Hexagon conducted a detailed and rigorous testing and physical validation programme with SPC Europe to produce highly accurate multi-scale behavioral models of its Thermofil HP grades and Thermofil Circle portfolio of recycled PP grades. Each material grade has a model that simulates the materials' mechanical and environmental performance throughout a component's lifecycle. The encrypted proprietary material models can be accessed by SPC Europe customers through Hexagon's Digimat software.

Digimat is interoperable with popular CAE tools, such as MSC Nastran, Marc, and third-party software, empowering engineers to perform accurate analyses using established digital engineering workflows.

Plastics can contribute up to 20% of the total weight of a car, and their application is escalating with the continuing replacement of metals. The automotive industry's shift to e-mobility has increased the need for lightweighting components to maximize the energy efficiency of vehicles and mitigate the considerable weight of battery packs, but their environmental performance throughout the lifecycle must also be considered by product development teams.

Source: Plastics Today

New P&G Product Pump Design Can Be Recycled Without Disassembly

Writing in a recent U.S. patent , multinational personal beauty care company Procter & Gamble details how their innovative design fills a pressing need for consumers and manufacturers alike, stating, "there is a need for a pump dispenser that has a pump assembly where used pump assemblies do not require disassembly to be recycled in current recycling streams."

To accomplish this, there is also a "need for a pump assembly with a plastic spring where the spring does not lose stiffness over time and does not interact with the liquid product."

The current pump problem

Pump dispensers are used throughout the beauty and personal care industries in various products and applications, including cosmetics, shampoo, conditioner, and lotions. Most pumps are constructed with polyethylene (PE) or polypropylene (PP) components and typically feature a steel spring, which allows the pump assembly to dispense product "when a user pushes down on (or primes) the pump head.

This causes the piston to put "pressure on the spring and move a ball valve upward, taking some product with it. When the pump head is released, the piston and spring return to the resting positions, sealing off the housing chamber to stop liquid from flowing back up into the bottle."

Unfortunately, while most PE or PP components in current designs can generally be recycled, "the presence of the steel spring in the pump assembly can make it difficult to recycle the pump dispenser in current recycling streams." Steel springs are currently in favor "because they are inexpensive, relatively stiff with little deformation over time while still being relatively easy to actuate, and generally do not react with most liquid beauty and personal care products

Therefore, the P&G research team sought to design instead an alternative "pump dispenser that comprises only recyclable plastics from the same material recycling class, as defined by the Society of Plastics Industry, including a plastic spring

Drawbacks to current alternatives

Current plastic spring designs have several drawbacks, which P&G researchers looked to improve in their design. For example, "in pump assemblies with metal springs, the spring is in contact with the liquid product during use." Steel is a relatively inert material; this causes little to no interaction with the product.

However, plastics like PP and PE “can be more reactive than steel to some chemistries, which can cause the spring to have a modulus change (either stiffening or loosening) or even stress-breaking by the interaction between the spring material and the liquid product.”

Further drawbacks to the current design include the possibility that material from the plastic spring “can leach into the liquid product, compromising the safety and efficacy of the product .” Additionally, plastic springs have an “ elastic modulus that is 50× to 150× lower than steel, and if they are subjected to this compressive force in a locked storage configuration, there can be significant deformation and the pump assembly will not work as well

Proposed solutions and results

To address these concerns, researchers created two different pump dispenser designs, testing a total of six different versions of the designs on criteria including Average Output per Stroke (OPS), Pump Average Peak Force to Actuate & Return Time, and Spring Specifications Peak Force to Actuate to determine the optimal combination of design factors.

Both dispenser designs include a dual-stem design with housing at least partially surrounding the second stem, with the first stem including an end rigidly attached to the pump head. Additionally, both designs feature a pump head adapted to receive an end of the first stem and a closure coupled to the neck of the body.

The first dispenser design specifically utilized a bottle “ comprising a neck having a neck landing zone; wherein the bottle consists essentially of polypropylene, polyethylene, or polyethylene terephthalate ,” while the second design features “ a neck wherein the bottle contains a fluid product.

Following testing, designers determined that in the ideal variation of the first design, the pump assembly “consists essentially of polypropylene or polyethylene .” For the second design, the pump assembly “comprises at least 80% of one kind of recyclable plastic selected from the group consisting of polyethylene, polypropylene, polyethylene terephthalate, and combinations thereof.”

The potential industry impact

According to a recently published study by the Environmental Protection Agency, Americans have tripled their production of municipal solid waste (MSW), which includes plastics, from 88.1 million tons produced in 1960 to 292.4 million tons in 2018. That same year, approximately 24% of MSW was recovered for recycling – an average of 1 pound per capita per day of the 5 pounds per capita per day produced.

Recycling rates have remained relatively steady since 2005, indicating that American consumers consider sustainability in their purchasing habits. However, in 2017 China banned the import of all but the highest quality plastic for processing, significantly impacting municipal recycling programs across the United States.

The cosmetics industry, a large producer of plastic product packaging, should therefore take note of the design innovation detailed in P&G’s recent patent filing. As consumers continue to gravitate towards more natural and sustainable products, it is logical to assume that a completely recyclable packaging option will be highly marketable in the coming months and years.

Source: Packaging 360

Berry, Coca-Cola Collaborate to Implement Tethered Caps in EU Markets

After winning a prestigious sustainability award at PACK EXPO International last month for this circular solution, Berry Global Group, Inc. (NYSE: BERY) is the first plastic packaging manufacturer in Europe to supply The Coca-Cola Company with a lightweight, tethered closure for its carbonated soft drinks in PET (polyethylene terephthalate) bottles. Bolstered by the European Union (EU) Single-Use Plastics Directive, Berry’s new tethered closure for Coca-Cola is designed to remain intact with the bottle – making it less likely to be littered and more likely to be recycled.

Over 400 million closures have been successfully applied to date on Coca-Cola bottling lines in Germany, Spain, and the UK, with the rollout to continue to the company’s other European plants.

“Innovation in packaging design is key to helping our customers meet their ambitious sustainability goals while delivering attractive, functional solutions that meet and exceed constantly evolving market demands,” said Thierry Bernet , VP Circular Economy & Innovation at Berry Global. “Because PET bottles are the most recycled plastic package type, this collaboration has tremendous potential to help keep resources in use and out of our environment.”

EU Directive 2019/204 requires plastic beverage bottles up to 3 litres in size to have closures that remain attached to the container throughout their intended use from July 2024. And this collaboration helps progress Coca-Cola's goal to make 100% of its packaging recyclable globally by 2025.

Maintaining a convenient and comfortable user experience, in addition to product safety and security, Berry's new tethered closure for Coca-Cola features a special tamper-evident band that, once broken, does not impact the closure's ability to remain attached and is positioned out of the way for drinking but can easily be reclosed. When open, it provides a wide angle for easy access to the beverage and comfortable on-the-go drinking.

Berry's closure for Coca-Cola is based on its patented CompactFlip hinge solution. It is the first to be used in conjunction with the new lightweight 26mm GME30.40 neck, developed by the Cetie (The International Technical Centre for Bottling) Single-Use Plastics Group, of which Berry is a member. The new neck finish delivers an over 1g saving in PET compared to the current PCO-1881 neck. Combined with a 10% weight reduction from the Berry closure, the new pack is now around 20% lighter than the PCO-1881 version.

Source: Packaging 360

India News

FMCG in 2023: Industry Experts Pin Their Hopes on Moderating Inflation, Rural Revival, and Demand for Packaged Food

Fast-moving consumer goods FMCG) makers expect inflation to moderate in 2023 with green shoots in the impacted rural segment. Further, digitisation, premiumisation, and demand for packaged and ready-to-cook food are emerging as key drivers of growth as the industry enters the new year, shared industry leaders. Right through 2022, even as the customer became more frugal, price-conscious, and always looking for value for money, one of the ways in which businesses adapted was by reducing the grammage or size of unit packs while keeping the same price points, said Manish Aggarwal, director, Bikano, Bikanervala Foods. He added that brands tied up with local as well as online delivery platforms, thus resulting in the growth of the whole sector.

In 2023, he expects greater growth along with improved margins and profitability for FMCG companies on the back of softening raw material costs. “There has been a consumption revival and renewed customer confidence in 2022, and we expect this demand improvement to continue into 2023,” said Juan Pablo Rodriguez, CEO, Hindustan Coca–Cola Beverages (HCCB).

Noting positive growth in premium segments, Saugata Gupta, MD, and CEO of Saffola edible oil maker, said that the urban and premium discretionary categories are performing pretty well, despite the continued weakness of rural demand. “We anticipate a slow improvement in the cost and margin challenges as well as a possible improvement in rural sentiment in the upcoming year,” he added.

Sunil D’Souza, MD and CEO, Tata Consumer Products noted that brands that stay relevant to the consumer and deliver products that add value will have an edge. He shared that in addition to topline growth, balancing margins and staying nimble will be critical to achieving success for FMCG players.

“2023 will also see an upward graph for the FMCG market as this segment is completely dependent on demand. FMCG is one of the segments where demand can never go down, the growth percentages may definitely vary,” commented Ashish Khandelwal, MD, BL AGRO. He highlighted that the Bail Kolhu cooking oil maker is seeing huge demand and therefore, has set up a new manufacturing unit to double its production and fulfill the demand.

Inflation a challenge in 2023?

Commenting if Inflation will turn out to be a party spoiler in the new year similar to 2022, Vivek Gupta, head – essentials at Udaan said that India's domestic consumption-driven economy will continue to play positively in the market. He highlighted that inflation easing along with strong measures such as higher infrastructure spending, the government's focus on logistics and supply chain and a good monsoon will help in improving the overall consumer spending and sentiment.

Gupta from Marico commented, "As far as the inflationary scenario is concerned, we think the worst is over." He added that while inflation in vegetable oils has settled a little, crude inflation also must settle so that the overall food inflation basket settles down.

"We expect to see a gradual improvement in the margin pressure and cost pressures. We believe that while consumption will improve, the improvement will be gradual as we get into the second half of the year."

Commenting on rural markets, D'Souza said, "We are seeing some initial positive signs but will need to watch for a few more months before we can call it a recovery." Sharing lowered inflation numbers in November 2022, Rodriguez from HCCB said that according to the latest trends, the brand is optimistic that inflation will be under control in 2023. However, he added that the company is also prepared to brace any upward trends and volatility by leveraging its scale and volumes.

"We will be bracing up our supplies commensurate with the increase in demand and building capacity for 2023 and beyond, to help us drive larger volumes. In accordance, we have made impactful investments wherever we sensed demand and plan to continue this growth in the coming year," he shared.

Contrary to popular belief, Sahil Dharia, founder & CEO of Soothe Healthcare, which makes Paree sanitary pads said that he expects high inflation to be persistent through 2023, resulting in a challenging time ahead for brands, especially businesses that are majorly dependent on online channels. He added that next year, loyalty in the D2C space will be tested as brands reduce discounts in an effort to improve the bottom line because the online customer trends are fickle jumping marketplaces or picking the lowest denominator.

Harsha Razdan, partner and head, consumer markets and internet business, KPMG in India said, "Inflation continues to be the weak spot in India's consumption story and volume growth will remain a challenge in the first half of 2023."

Razdan added that given the current scenario, FMCG companies will require a more detailed understanding of how purchasing decisions are made in different markets and categories whilst getting pricing right. He highlighted that while D2C players continue to leverage their ability to connect closely to customers, conventional FMCG brands will need to offer benefits beyond serving as a connection point between manufacturers and consumers.

Premiumisation, packaged and ready-to-eat segment to drive growth

Manish Bandlish, MD, Mother Dairy Fruit & Vegetable said that the FMCG market is likely to continue with the same momentum in 2023 as it did in 2022 on account of increased demand for packaged products. He added that the increasing shift from unorganized towards organized segments coupled with digitisation is going to be a significant driving force in the growth of the FMCG sector in 2023.

Commenting on the demand for premium products, Gupta from Marico said that the urban consumption and premium segment are much better placed because the premium discretionary FMCG segment had a far lower base last year. He shared that Marico aims to deliver at least mid-single-digit volume growth in H2 and maintain its aspiration to deliver an 18-19 per cent EBITDA margin in FY23. "We have been driving growth through digitisation and premiumisation. In line with this, we expect our digital portfolio to keep growing every quarter till it reaches ₹450-500 crore mark in FY24," he highlighted.

Tata Consumer's D'Souza too shared that the company is focused on accelerating its growth businesses which include Tata Sampann in the pantry space, which sells pulses, spices, staples, RTC, dry fruits, NourishCo which plays in water and ready-to-drink segment, Tata Soulfull and Tata Sampann Yumside which include breakfast cereals, RTE, snacks, and Tata Simply Better in the plant-based meat category.

"We believe convenience food and RTE/RTC food category will see a positive uplift and grow faster as post-covid trends continue to factor in and more offices and educational institutes opening," commented Akshay Modi, MD, Modi naturals adding that improving macroeconomic scenarios will lead to employment creation and thereby improve the consumption trends.

He highlighted that the company plans to launch new product categories in RTE and RTC space targeting young urban audiences with high disposable income.

Source: Packaging 360

Constantia Flexibles Announces Joint Venture in India

Constantia Flexibles, a leading producer of flexible packaging worldwide, signed a joint venture (JV) agreement for its Indian business and operations with Premji Invest and SB Packagings. The combination will help Constantia Flexibles achieve its ambition to grow further and create value in the Indian market. "I am very pleased to partner with SB Packagings and Premji Invest," says Pim Vervaat, CEO of Constantia Flexibles. "I have the greatest respect for SB Packagings' achievements and look forward to the joint venture, supported by Premji Invest, to grow the combined business profitably."

The JV is pursuing organic as well as inorganic growth in higher added value market segments in India, continuing its strong growth trajectory in the hygiene segment whilst further developing the more sustainable mono-material EcoLam product range. With the new partners, Constantia Flexibles is able to strengthen its business in the region and various market segments. As SB Packagings is a leading player in the hygiene segment, the new partnership will help extend Constantia Flexibles' portfolio.

The closing of the joint venture agreement is expected to be completed by the end of March, pending regulatory approvals. KPMG India acted as the exclusive financial advisor to Constantia Flexibles for the transaction. Constantia Flexibles is the world's third-largest producer of flexible packaging. Based on the guiding principle of 'People, Passion, Packaging', some 8,750 employees manufacture tailor-made packaging solutions at 38 sites in 16 countries. Many international companies and local market leaders from the consumer and pharma industries choose the sustainable and innovative products of Constantia Flexibles. Sustainability is a top priority in product development at Constantia Flexibles: the company was rated Level A by Climate Change Leadership (CDP) in 2021 and Gold by EcoVadis in 2022. www.cflex.com

SB Packagings, founded in 1989 by Mr. O.P Banga & Mr. Amit Banga, is one of the leading flexible packaging companies based out of India. SBP group over the past 4 decades, has been at the forefront of manufacturing mono-polymer sustainable packaging much ahead of its peers. It has won various awards and global accolades for its innovation & printing excellence. In 2022, it was chosen as the 'Packaging Company of the Year' by PrintWeek and won the "WorldStar" award in Milan for sustainable packaging and also the 'Gold' at the Asian Packaging Excellence Awards. SBP with over 50% market share, is by far the largest company manufacturing hygiene packaging for leading global and Indian brands. SBP also has a strong footprint in the Food and Beverages space.

Premji Invest is the investment arm of Azim Premji's endowment and philanthropic initiatives. It has been active in investing in the Indian markets for over ten years with a large investment corpus. The focus of investments has been to grow medium-sized Indian companies into large companies that can compete globally. Investments of Premji Invest are across sectors like consumer, financials, technology, and manufacturing and to name

a few include, Fab India, Hygienic Research, ID foods, Lenskart, Policy Bazaar, Flipkart, SBI General Life Insurance, Gold Plus Glass, Best Value Chemicals, Sagar Cements, Micro Plastics and Shubham Housing Original Source.

Source: Packaging 360

Indian economy to grow 6.5% next year: Economic Survey

Higher domestic demand and a pick-up in capital investment is expected to help the Indian economy grow 6.5 per cent in real terms in FY24 or 2023-24, the Economic Survey is learnt to have projected. In nominal terms, the GDP growth rate is expected to be around 11 per cent, suggesting an average annual inflation during the next financial year to be 4.5 per cent.

The Economic Survey 2022-23, scheduled to be tabled in Parliament by Union Finance Minister Nirmala Sitharaman Tuesday morning, has also likely projected the growth rate for the current financial year, i.e., 2022-23, at 7 per cent. This is higher than the 6.8 per cent growth forecast of the Reserve Bank of India in its December 7, 2022, monetary policy.

Sources said a 7 per cent growth in 2022-23 for India is higher than that for most major global economies and is even slightly above than the average growth rate for the Indian economy in the decade leading up to the pandemic.

Sources said the higher growth comes despite the three shocks of Covid-19, Russian-Ukraine conflict, synchronised monetary policy tightening by most central banks leading to dollar appreciation and a widening current account deficit for net importing countries like India.

The Survey, sources said, however cautioned about the persisting challenge of the depreciating rupee due to further rate hikes by the US Federal Reserve. This will come along with a higher current account deficit with commodity prices remaining elevated, and India's growth momentum remaining strong.

Elaborating on its concerns, the Economic Survey said risks to the current account balance come from multiple sources – global commodity prices remaining above pre-conflict levels and higher import bill due to buoyant growth prospects amidst high commodity prices. This may be exacerbated due to slowing global demand, and hence a plateauing of exports from India.

The other worry is about inflation remaining entrenched for longer than expected. This may prolong the monetary tightening cycle of the RBI, and borrowing costs may remain higher for longer.

A lower global growth, however, presents two silver linings, the Economic Survey notes. One, oil prices will stay low and India's current account deficit will be lower than currently projected.

Source: Indian Express

Piyush Goyal exhorts large firms to help MSMEs adopt best practices, integrate into supply chain ecosystem

Commerce minister Piyush Goyal has exhorted large businesses in the country to take responsibility for handholding MSMEs, supporting them to adopt best practices in businesses and also integrating them into the supply chain ecosystem. Speaking at the fourth plenary session of B20 India Inception Meeting on Building Resilient Global Value Chains organised by industry body CII on Monday, the minister said MSMEs tend to grow around a larger unit or an anchor company.
Citing Apple's example, Goyal said as Apple's manufacturing plant comes up, thousands of MSME units flourish in the ecosystem as mini value chain suppliers to the company. "MSMEs have more practical solutions, day-to-day experiences, and having learnt the hard way, they are able to adapt to circumstances better than large companies."

Goyal also urged large enterprises to be sensitized to handhold MSMEs associated with them. "We must also try to make it easier to operate for small companies, eliminate unnecessary paperwork, make custom processes simpler, and use technology to ease and simplify processes."

The minister also addressed the need for the country to become a global trading hub to support MSMEs. He suggested a study on Singapore to understand its important role as a trading hub and prepare a basic framework based on the study to support MSMEs. “It may involve Infrastructure development and addressing challenges of logistics. MSMEs bring trust to the table, which is the most important element of any value chain be it domestic or international,” Goyal added.

The minister’s comments come in the backdrop of trade deals signed with the UAE and Australia last year in order to reduce or remove trade barriers particularly import tariffs for MSMEs and other businesses.

Reflecting on the India-UAE trade deal Comprehensive Economic Partnership Agreement (CEPA), Goyal said MSMEs of both countries will be the biggest beneficiary of this agreement. “In fact, India is in dialogue with some of the larger companies of the UAE to leverage the best out of CEPA.”

The UAE was the second top export market for India in the fiscal year 2021-22 after the US while China stood third, according to the FY22 Economic Survey. India’s annual exports to the UAE are around $26 billion. Apart from the two countries, similar pacts are under discussion with the UK, the European Union, Canada, Israel and the Gulf Cooperation Council (GCC) – a political and economic alliance of six Middle Eastern countries viz., Saudi Arabia, Kuwait, Bahrain, Oman, Qatar, and the UAE.

Source: FE

Infra boost likely in Budget 2023! Government holds ground to put all ‘Shakti’ to accelerate ‘Gati’ of infrastructural development

Infrastructure boost is expected to grab the spotlight of the forthcoming Budget 2023, to be presented by Union Finance Minister Nirmala Sitharaman on February 1, as the investments in the infra sector create huge job opportunities and could add much needed spins to the growth story of India. Narendra Modi-led Central government has over the years put focus on the infrastructural development in the country.

A wide array of centrally sponsored schemes such as Pradhan Mantri Awas Yojana-Urban, National Smart Cities Mission, Metro Rail and Regional Rapid Transit System, Atal Mission For Rejuvenation and Urban Transformation Mission (AMRUT) Mission underscores the commitment of the government to bolster the infrastructural set-up of the country to bring holistic development. The budgetary push will keep the momentum of infrastructural development rolling on that could create a strong base for India to become the third largest country by 2030

Infra investments

In the backdrop of the job crisis and sluggish economy, experts expect that the government will jack up Capex with major thrust on Gati Shakti and National Infrastructure Pipeline. To make India a $5 trillion economy by 2025, the government will have to spend the lion’s share of its budget on infrastructure that could churn out job opportunities in the run-up to the Lok Sabha elections- 2024.

On the go to expedite infrastructure projects

Road Transport and Highways Minister Nitin Gadkari recently held a high-level meeting to address existing interministerial issues regarding the implementation of various infrastructure projects to accelerate Prime Minister Narendra Modi’s flagship Gati Shakti scheme.

According to an official statement, Gadkari said an action plan was introduced to push up the PM’s Gati Shakti scheme’s progress and scores of issues were underlined for deliberation to expedite the ongoing infrastructure projects, reported PTI.

In the meeting, attended by Union Commerce and Industry Minister Piyush Goyal, Railways Minister Ashwini Vaishnaw, Union Environment, Forest and Climate Change Bhupender Yadav among others, discussions were held at length on environment clearances, land policies of Railways and the Ministry, guidelines for environment and forest clearance among others.

Budgetary reinforcement to Gati Shakti

Gati Shakti, Prime Minister's flagship National Plan for Multi-Model Connectivity, is deemed to be a key driver for infrastructure development and a major boost for the growth of India's economy. All eyes are on the Finance Minister's kitty as it is expected that Budget 2023-24 may take Gati Shakti, which surveys the work progress of all key infrastructure projects, to new heights. Industry experts are of the opinion that the Budget 2023-24 will have several measures to reinforce the Gati Shakti-related projects. It is likely that the Budget may dole out additional incentives to states to undertake the Gati Shakti related projects under the Capital Expenditure programme for the next financial year, according to a report published by FE. The Centre may offer a large Capex loan to the state governments in Financial Year 24 as well to bolster the economic growth. The Centre and states will, as sources told FE, will focus on the coordination to improve investments through the implementation of initiatives like PM Gati Shakti and National Infrastructure Pipeline. .

Capex support to 18 states

Out of the 1 trillion interest-free 50-year Capex loans, the Centre has sanctioned around Rs 5000 crore to 18 states to implement Gati Shakti related projects in the current financial year. The beneficiary states include: Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Himachal Pradesh, Haryana, Jharkhand, Karnataka, Manipur, Meghalaya, Maharashtra, Madhya Pradesh, Nagaland, Sikkim, Tamil Nadu, Tripura and Uttar Pradesh.

Gati Shakti beyond boundaries of India

In an effort to develop holistic infrastructure in India, the PM Gati Shakti was launched in October 2021 with the aim to integrate planning and coordinated implementation of various projects in cooperation with state governments. The Gati Shakti has revolutionize infrastructure in India that provides multimodal infrastructure connectivity to various economic zones by putting together 16 ministries, including railways and road transport & highway, on one platform, which enables smooth connectivity for the movement of people, goods and services from one mode of transport to another one. PM Gati Shakti gives a template for the incorporation infrastructure schemes of various ministers and states like Bharatmala, Sagarmal, inland waterways, ports, UDAN. India is also working on the implementation of many infrastructure projects in neighbouring countries. The ambit of PM Gati Shakti may zoom out to cover some important projects in Nepal, Bangladesh, Bhutan and Sri Lanka. The vision of PM Gati Shakti is based on six pillars: comprehensiveness, prioritization, optimization, synchronisation, analytical and dynamic.

Source: FE

Why become a Plexconcil Member?

Established since 1955, the Plastics Export Promotion Council, PLEXCONCIL, is sponsored by the Ministry of Commerce and Industry, Department of Commerce, Government of India. PLEXCONCIL is a non-profit organization representing exporters from the Indian plastics industry and is engaged in promoting the industry exports.

The Council is focused on achieving excellence in exports by undertaking various activities and initiatives to promote the industry. The Council undertakes activities such as participation at international trade fairs, sponsoring delegations to target markets, inviting foreign business delegations to India, organising buyer-seller meets both in India and the overseas etc.,

The Council also routinely undertakes research and surveys, organizes the Annual Awards to recognize top performing exporters, monitors the development of new technology and shares the same with members, facilitates joint ventures and collaboration with foreign companies and trade associations as well as represents the issues and concerns to the relevant Government bodies.

The Council represents a wide variety of plastics products including – Plastics Raw Materials, Packaging Materials, Films, Consumer Goods, Writing Instruments, Travel ware, Plastic Sheets, Leather Cloth, Vinyl Floor Coverings, Pipes and Fittings, Water Storage Tanks, Custom made plastic Items from a range of plastic materials including Engineered Plastics, Electrical Accessories, FRP/GRP Products, Sanitary Fittings, Tarpaulins, Laminates, Fishing Lines/Fishnets, Cordage/ Ropes/Twines, Laboratory Ware; Eye Ware, Surgical/ Medical Disposables.

Membership Benefits

- Discounted fees at International Trade Fairs and Exhibitions
- Financial benefits to exporters, as available through Government of India
- Disseminating trade enquiries/trade leads
- Instituting Export Awards in recognition of outstanding export performance
- Assistance on export financing with various institutions and banks
- Networking opportunities within the plastics industry
- Listing in PLEXCONCIL member's directory
- Basic Website Development Assistance *

*Nominal Charges Applicable

New Members

The Plastics Export Promotion Council added the following companies/firms as new members during December 2022. We would like to welcome them aboard!

Sr.No	Name of the Company	Address	City	Pin	State	Director Name	Email
1	Adroit Extrusion	Plot 3 Survey 506 Khodalraj Gidc 4 , Nr Shri Hari Dharsan Ind Park Ramol	Ahmedabad	382449	Gujarat	Mitesh Balvantbhai Milishia	info@adroi-textrusion.com
2	Aero Plast Limited	C-2/185, West Enclave, Pitampura, North West,	Delhi	110034	Delhi	Jyoti Garg	logistics@aeroplastltd.com
3	Aje Mercantile Private Limited	406, Rainbow Chambers, S.V.Rd , Poinsur, Kandivali West	Mumbai	400067	Maharashtra	Mitul Jitendra Vora	ajempl@gmail.com
4	Akc Plastrusion Company	28 Kaithamalai Road,Uthukuli,Tiruppur,Tamil Nadu,Tiruppur,638751	Tiruppur	638751	Tamil Nadu	Sivasantosh.C.T	siva@akcgroup.co.in
5	Bruder Plastech Private Limited	Plot No.63, Chimbali Phata Road,-Village Chimbali, Chakan, Tal.Khed Chakan, Tal.Khed	Pune	412105	Maharashtra	Murlidhar Ramchandra Kadam	nphanse.np@gmail.com
6	Crown Pipes	Sadashiv Peth, Office No. 101, Business Square, Tilak Road,	Pune	411030	Maharashtra	Rushikesh	crownpipes1@gmail.com
7	Crystal Poly Pack	Plot No. 1 Survey No. 224 Udhyog Nagar Nandasan Road , Behind Noble School	Kadi	382715	Gujarat	Marfatiya Mohammednaeem Mohamedismail	crystalpoly-pack18@gmail.com
8	Elanza Industries	Mouza Maneri MP Industrail Area IGC Maneri, Sector F Block-3, Plot No 47 To 56,	Mandla	481885	Madhya Pradesh	Kiran Kalway	elanzaindustries@gmail.com
9	Fastrack Dealcomm Private Limited	E-4, Udyog Nagar, Rohtak Road,	New Delhi	110041	New Delhi	Amit Taneja	fastrack.accts@gmail.com
10	Foamnet Plastics Private Limited	E/34, Hig ,Ravishankar Nagar,	Indore	452001	Madhya Pradesh	Chanchal Agarwal	pulkit427@gmail.com
11	Fusion Industries Limited	Plot No.1 & 4, Block - H, Nh-2,Opp. Fci Godown,N.I.T.,	Faridabad	121001	Haryana	Yunik Chandna	chanddna@fusionpipes.com
12	Giriraj Polypack	Plot No.3, R.S.N.83p3p2, Rajkot-Gondal National Highway, Bhunava, Ta: Gondal	Rajkot	360311	Gujarat	Sandip Haribhai Baldha	girirajpoly@gmail.com
13	Gopal Printpack Solutions	Plot No. G-1322, Metoda, B/H. Kadvani Forge, Kishan Gate,	Rajkot	360021	Gujarat	Denish Ashokbhai Rokad	account@gopalprintpack.com
14	Greenage Industries	Plot No 123, Road No 6, Phase 1, Kathwada Gidc,Ahmedabad Sardar Patel Ring Road	Ahmedabad	382430	Gujarat	Ravi Rajendrabhai Kadiwar	info@greena-geind.com
15	Hope International	Inderlok Campus,Vijay Chowk, Golghar,	Gorakhpur	273001	Uttar Pradesh	Arun Kumar Srivastava	hopeinterna-tionalindia@gmail.com
16	Huhtamaki India Limited	12A-06, B-Wing, 13th Floor, Parinee Crescenzo, C-38/39, G Block, Behind MCA, Bandra Kurla Complex Bandra East	Mumbai	400051	Maharashtra	Jagdish Agarwal	logistics.india@huhtamaki.com
17	Itc Limited	Virginia House, 37, Jawaharlal Nehru Road	Kolkata	700071	West Bengal	Supratim Dutta	sn.venky@itc.in
18	K V R Polyplast	Survey No 368 P 4,Survey No 368 P 5 , Panchratna Ind Area,Vora Kotda Road, Nr Jail,Gondal	Gondal	360311	Gujarat	Rohit Singh	kvrpolyplast@gmail.com

19	Kannapiran Polymers Limited	Post Bag No.1 Kannapiran Mills Premises, ,Sowripalayam,,Coimbatore,Tamil Nadu,Coimbatore,641028	Coimbatore	641028	Tamil Nadu	P.Arumugam	arumugam@kgfabriks.com
20	Mili Human Hair Processing	Anantapur, Naba Anantapur, Bhagwanpur, Medinipur		721601	West Bengal	Mili Maity	cplt.maity@gmail.com
21	Nandan Plastic	Survey No. 32, Paiki 4, Plot No.8 , Lakhdhirgadh Khijadiya Road, Tankara,	Morbi	363650	Gujarat	Kishorbhai Odhavjibhai Savsani	nandanplastic59@gmail.com
22	Pdm Extrusions Private Limited	House No.226 Upper Ground Floor Deepali Enclave Pitampura North West,	Delhi	110034	Delhi	Varun Jain	varun@pdmsourcings.com
23	Premium Polyalloys Private Limited	111, Neelkanth Commercial Centre, Plot No. 122/123,Sahar Road, Andheri East,	Mumbai	400099	Maharashtra	Bhupendra Kumar Humad	exportmum@premiumpolyalloys.in
24	Radiance Machinocraft Llp	A 101 Pramukh Aura Sargasan X Road, Uvarsad,	Gandhi Nagar	382421	Gujarat	Rushabh Shah	info@radiancemachinocraft.com
25	Shree Ambica Geotex Private Limited	15, Shahwadi Saijpur Gopalpur Road, Shahwadi, Octroi Naka , Narol	Ahmedabad	382405	Gujarat	Dipakkumar Jamnadas Sheth	info@sagpl.com
26	Sneh Polymers Private Limited	Khasra No.1849 N.H 8, Dudu, Teh. Dudu	Jaipur	303008	Rajasthan	Gaurav Batra	imports@stioverseas.com
27	Strapex Synthetics Private Limited	Plot No. 45, Tirupati Society - 4,Kothariya Chokdi, Kothariya,	Rajkot	360002	Gujarat	Bharatbhai Nathabhai Dhulkotiya	strapexsynthetics@gmail.com
28	Stretch N Wrap International	117, Phase-I, G.I.D.C.Chhatrl	Gandhinagar	382729	Gujarat	Shaileshbhai Somabhai Patel	stretchnwrap@rediffmail.com
29	The Lakhotia Textiles Pvt Ltd	Plot No.26,19/P,Survey No.180, Soham Industrial Textile Park,Daskroi	Ahmedabad	382425	Gujarat	Nikhilkumar Girdharilal Agrawal	lpolyfab@gmail.com
30	Velnik India Limited	E-10, Krishi Mandi, Sojat City, Pali	Sojat	306104	Rajasthan	Manju Devi Gehlot	vandana.vadech@velnik.com
31	Vishal Containers Limited	Plot No 919 901 A And B 920, Gidc Estate, Chhatral Ta Kalol,	Gandhinagar	382729	Gujarat	Meet Dilipbhai Patel	account@vishal-packaging.com