

PERFIL



THE PLASTIC TRANSFORMATION
AND RECYCLING INDUSTRIES IN BRAZIL





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PLAST
2021

THE PLASTIC TRANSFORMATION AND RECYCLING INDUSTRY IN BRAZIL



A B I P L A S T





The plastic transformation
and recycling industries have
found national representation
and support for over five
decades, at the Brazilian."

Brazilian Association of the Plastic Industry | ABIPLAST



ABIPLAST | THE PLASTIC TRANSFORMATION
AND RECYCLING INDUSTRY IN BRAZIL

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ABIPLAST

Plastic Industry Association (ABIPLAST), since the segment started to develop in the country. The work started in 1967 and currently serves to a total of more than 12 thousand companies and almost 350 thousand professionals.

To keep this representation strong, the entity relies on the joint and collaborative work of 21 state unions, which strengthen the sector regionally, and partner associations, which contribute to reiterating the importance of our industry.

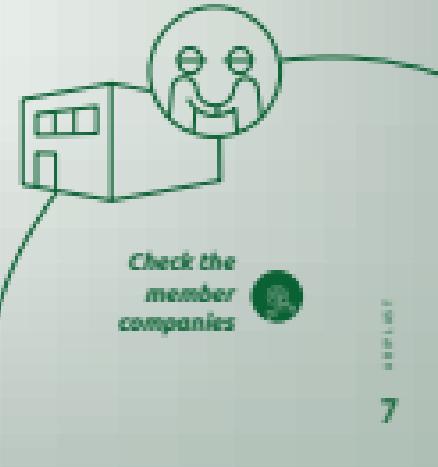
The entity, in addition to defending interests and providing assistance to the category through various services and initiatives, has the mission of valuing plastic, promoting the sector and its competitiveness, as well as technological advances with a focus on sustainability.

For Brazil, the progress of this industrial activity has a multiplying effect and proves to be important for providing numerous economic and socio-environmental benefits.

The concrete implementation of Circular Economy in the production chain is at the top of ABIPLAST's priorities. The entity works in this direction, developing together with its associates actions that prepare the sector for the new reality that is being outlined and gradually advancing towards effective results.

Circular Economy, production and conscious consumption demand new applicability of plastic material, which should add greater value to processed products, and lead to innovations both in raw materials and products and in technologies, processes and business models.

Innovation has been the beacon that guides the course of ABIPLAST's actions, with the goal to keep plastic products – including those that use recycled content – as the best solution for many human needs; and integrating plastic material with new market demands and trends.





II

I hope that 2021 will be important in terms of the sector's dimension and in what we believe to be an action to ensure its competitiveness; with solid foundations in productive evolution and innovation. Together, let's continue our journey of transformation."

WORD OF THE PRESIDENT

After two atypical years (2020 and 2021), with many challenges and learnings due to Covid-19 and everything that involved the pandemic, we enter 2022 with new perspectives. The health issue still forces us to maintain attention and care, but vaccines made it possible to control the virus and, consequently, imposed a horizon of new guidelines. The use of plastic was of fundamental importance in facing the pandemic in the production of masks, syringes for vaccines, utensils and packaging that gave access to deliveries to homes and hospitals.

It is a special year, in which we will have elections, with the choice of several representatives for the state and federal levels, including the President of the Republic. The general election brings many expectations and uncertainties, but also opportunities for openness to the debate of relevant issues. It is a time when we can

shed light on issues capable of bringing great changes to the industrial sector and to society as a whole.

In the current context of global cooperation on the issue of the climate crisis, in which politicians, scientists, environmentalists, companies and civil society seek joint solutions to a systemic issue, I reinforce the urgent need to also act with an integrated view among so many common goals.

An example is how the public and the private sector can jointly work, through cooperation and the sum of efforts, on urban solid waste solutions - among them, plastic. Increasing waste recovery rates, seeking innovation and technology for infrastructure in waste management are some important topics – and the focus of much work within ABIPLAST.

With this in mind, in 2022 we have already

delivered the project: "Business Models for Improving Urban Solid Waste Management in Brazil" - in partnership with ABDI, technical consultancy by Piemociani and a strategic partnership with Rede pela Circularidade do Plástico (REDE). The report brings proposals involving private and governmental actors. "Recicle Guarujá" was also launched, a partnership between companies and the city government - one of REDE's initiatives.

We are attentive to the themes of recycling and solid waste management. More than its relevance to business, there are a series of new decrees released at the beginning of the year by the government, which endorse the essentiality and urgency of addressing these guidelines, with broad debate and effective actions. It is an invitation for everyone to participate in these essential discussions, with new perspectives and new results.

José Ricardo Roniz Coelho
President ABIPLAST

ABIPLAST'S PERFORMANCE IN THE COMPETITIVENESS OF PLASTIC TRANSFORMATION AND RECYCLING INDUSTRIES

Access to Competitive Raw Materials

Search for integration and strengthening of the Brazilian production chain with the international market, targeting new suppliers and/or partners in favor of competitiveness and innovation.



Market Access and Development:

With an eye on the Circular Economy, innovation and Industry 4.0, ABIPLAST follows Brazilian and international trends and opportunities so that the sector's industries are always aligned with current discussions. In addition, it also monitors lines of financing that allow companies to invest.



Economic Advisory and Market Intelligence

Monitoring the sector and its competitiveness through research and monitoring of data from Brazil and international references, allowing the preparation of materials that support companies in the sector, identifying challenges and opportunities.

Technical Advisory

Monitoring of regulations, technical standards, ordinances and laws in force regarding plastic products in order to ensure that they are up-to-date with the reality of basic industrial technologies and technological infrastructure in the sector, in addition to advising on implementation in companies.



Labor Advisory

In partnership with SINDIPLAST, the Association monitors the Collective Bargaining that take place annually. In addition to advising on labor and union areas, advising companies and contributing to a healthy relationship between Capital and Labor.

ABIPLAST'S PERFORMANCE IN THE COMPETITIVENESS OF PLASTIC TRANSFORMATION AND RECYCLING INDUSTRIES

Project Management and Solution Development:



ABIPLAST believes that collaboration and the union of actions allow the execution of projects with great results for the sector. In this way, it has a qualified team available to manage projects for companies in the sector.



Tax Claims:

ABIPLAST believes in the importance of tax economy in the industrial sector in relation to other sectors of the economy, in addition to working according to the current tax logic, contemplating the dynamics of circularity of new business models.



Institutional and Governmental Relations:

With the objective of uniting actions and building collectively, ABIPLAST works in the institutional and governmental spheres to strengthen the plastic transformation and recycling industries.

ABIPLAST'S PERFORMANCE IN PROJECTS AND INITIATIVES FOCUSED ON SUSTAINABILITY



Business Models for RSU Management and Reverse Logistics

With the objective of developing partnership models between companies and municipalities with financial sustainability, ABIPLAST and ABDI joined forces, in partnership with the Rede pela Circularidade do Plástico, to propose models capable of optimizing RSU management and contributing to reverse logistics of products, uniting private and municipal actions.



Created in 2018 by an initiative of ABIPLAST, it is the first Brazilian initiative in favor of the Circular

Economy of plastic, involving all links in the plastic packaging production chain. REDE works to increase the recyclability of plastic packaging and the availability of plastic waste for recycling.



In order to highlight the use of plastic in a creative and responsible way, the Movement was created in 2016, the result of a partnership between ABIPLAST and Brasília. The initiative, which has already affected thousands of people, develops content, educational and interactive actions, encourages innovation and shown that plastic, combined with technology, creativity and responsibility brings countless possibilities for our daily lives and for the future.

ABIPLAST'S PERFORMANCE IN PROJECTS AND INITIATIVES FOCUSED ON SUSTAINABILITY



With the objective of informing citizens about the feasibility of recycling laper®[®], the program managed by ABIPLAST in partnership with several actors, promotes the correct destination of trays, boxes, lunchboxes and other EPS/PS packaging. The program, which began at the Perini Business Park in Joinville – the largest multisectional business park in South America – allowed this waste to have an average compliance level of 71%, indicating an increasingly correct disposal of this waste by the population.



To encourage the recycling of post-consumer plastic buckets in civil construction, Descarta Ai project began in 2022, the result of a partnership between ABIPLAST and COFAB. The initiative allows consumers and self-employed professionals in civil construction to have an environmentally appropriate and easily accessible option for disposing of buckets and their lids after consuming the products.

Packaging Reverse Logistics System | Sector Agreement:



ABIPLAST, along with other sectoral associations, is a member of Coalizão Embalagens that since 2015 has been working, through the General Packaging Sector

Agreement, in the National Program for Reverse Logistics of Packaging, in compliance with the PNRS. The objective is to increase post-consumer packaging recycling rates.

**separe.
não pare.**

separenpare.com.br

O Separe, Não Pare is one of the initiatives that belong to Coalizão Embalagens, to meet the PNRS. The Campaign seeks to inform, inspire and mobilize the Brazilian population to correctly separate and dispose of household waste. With a dedicated portal and an active presence on the main social networks, it delivers exclusive and educational content daily, helping to create and consolidate the culture of recycling. Throughout 2021, the initiative had more than 67 thousand interactions on Facebook and Instagram.

ABIPLAST'S PERFORMANCE IN PROJECTS AND INITIATIVES FOCUSED ON SUSTAINABILITY



The result of a partnership between ABIPLAST and CHIRPLAS, SENAPLAG is a seal of appreciation for recycling companies and post-consumer plastic resin with better performance. The

Company modality identifies and values recyclers who work within the social, environmental and economic criteria required by law. SENAPLAG Product certifies recycled plastic in order to enhance the product and ensure a higher quality material for the market, based on the methodology of the European EuCertPlast certification.

PPZ | Zero OCSB Pellet Program



ABIPLAST was the first licensor of the program in Brazil in 2014, adapting the initiative to the particularities of the Brazilian plastics industry. The objective is to engage and implement actions in the sector in a continuous action to reduce the loss of pellets in plants for the transformation and recycling of plastic materials.

Plastic Circularity System

Tracking plastic waste, from disposal to reinsertion as new material in the manufacture of a new product, is the objective of the digital platform being developed by ABIPLAST and ABDI in partnership with Central de Gestão.

Coming Soon!

CHECK OUT OUR POSITIONING AND INITIATIVES SUPPORTED BY ABIPLAST

www.feitoparacircular.com.br





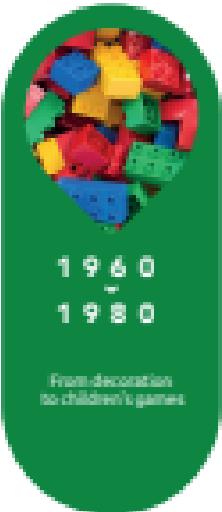
PLASTIC IN THE WORLD



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HISTORY AND EVOLUTION OF PLASTIC

[click to see](#) the full history of plastic



Technological advances and applicability

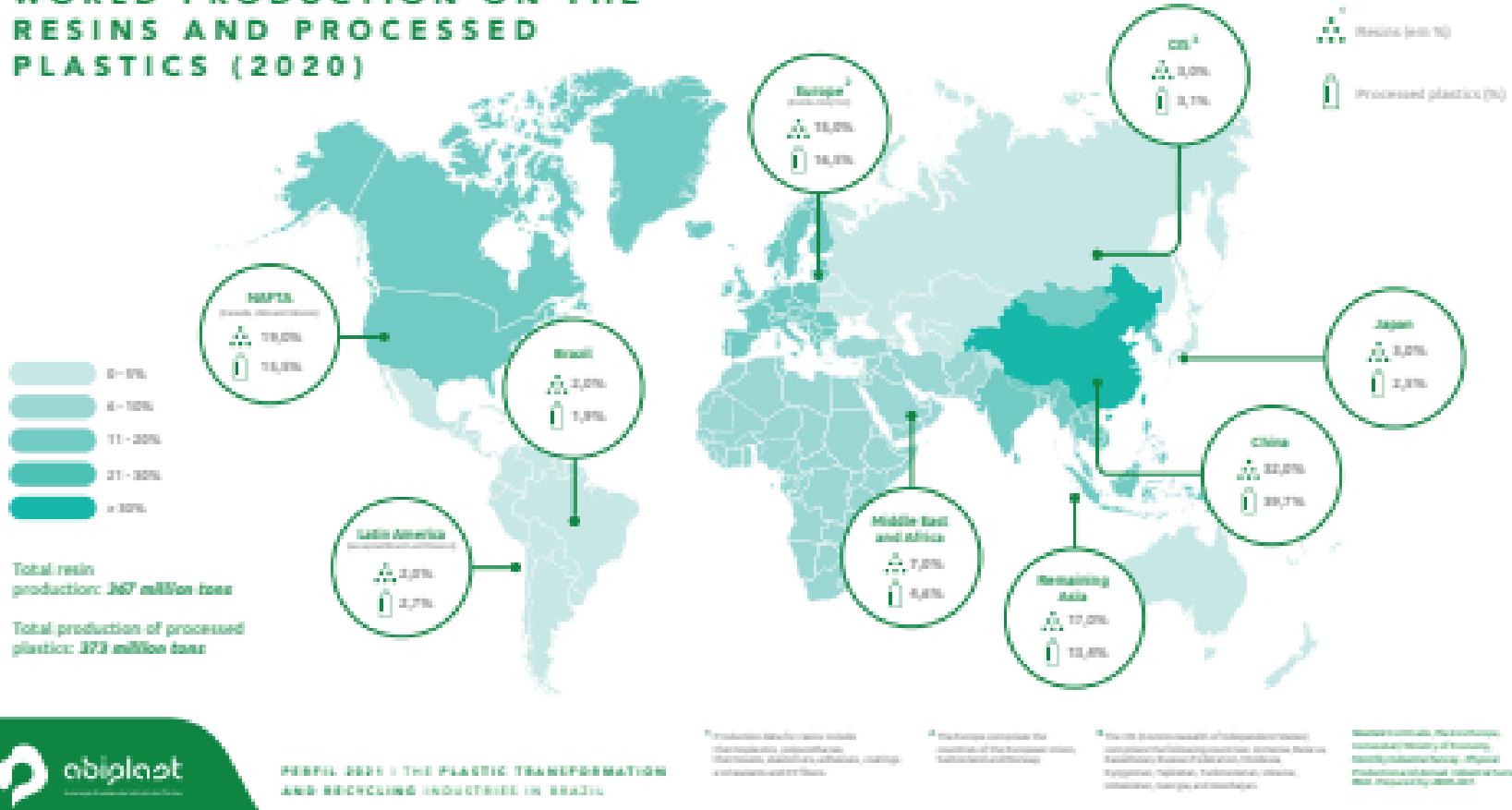


[click to know more about the origin of plastic](#)



[click to see the advances of plastic on medicine](#)

WORLD PRODUCTION ON THE RESINS AND PROCESSED PLASTICS (2020)

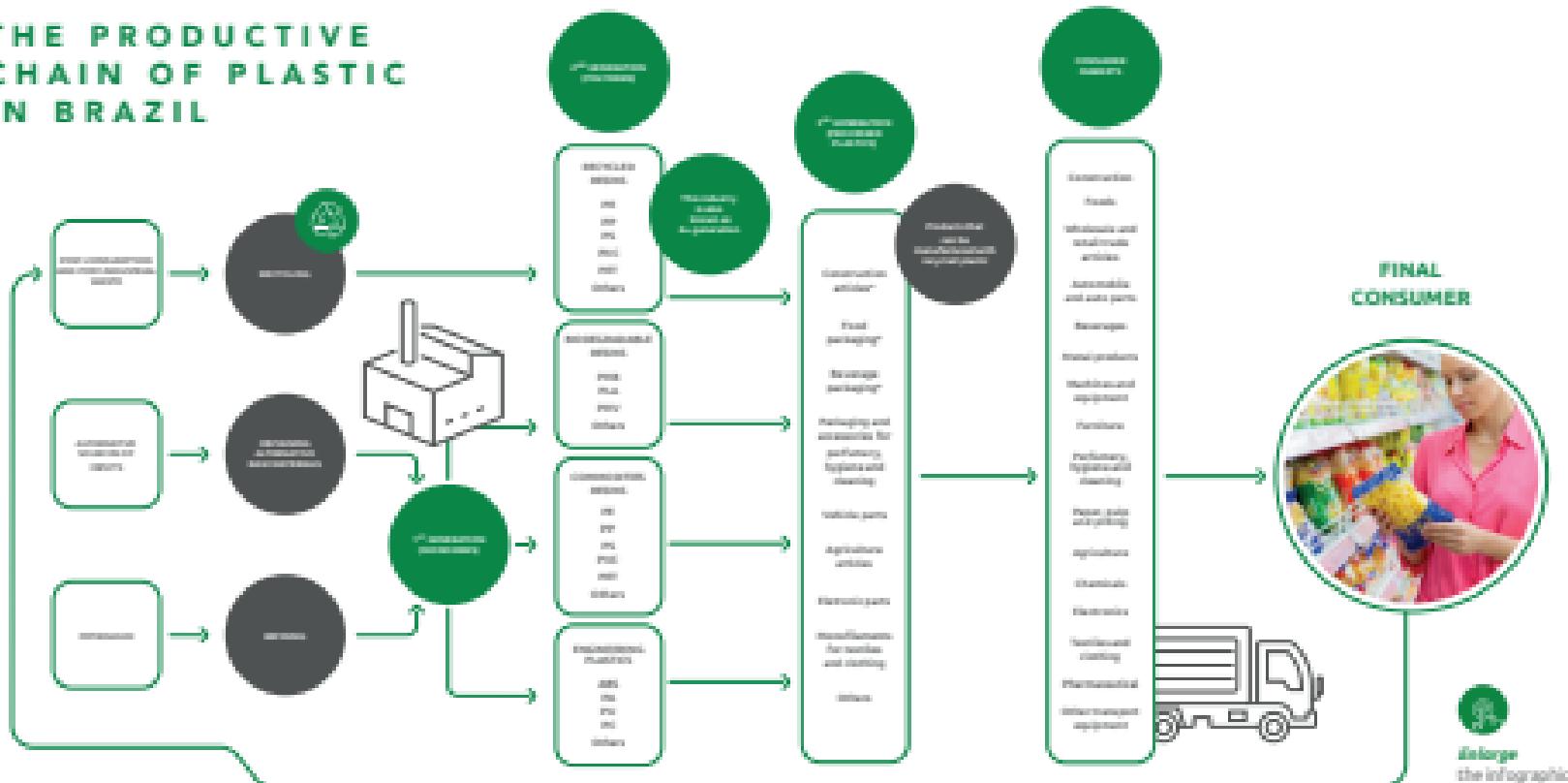




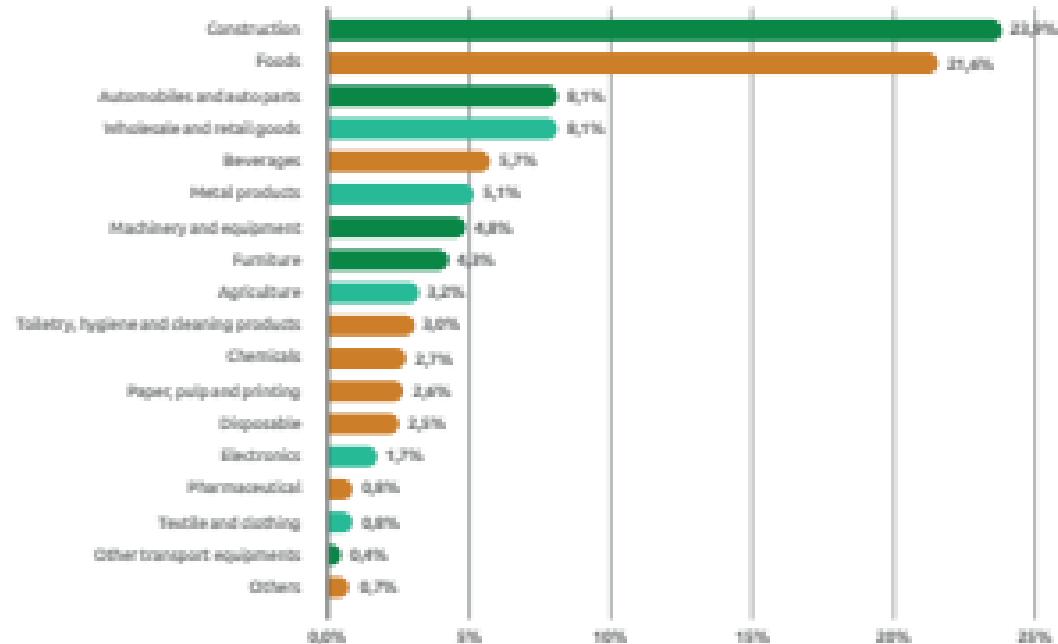
PRODUCTIVE CHAIN AND APPLICATIONS OF PLASTIC MATERIAL



THE PRODUCTIVE CHAIN OF PLASTIC IN BRAZIL



CONSUMERS SECTORS OF PROCESSED PLASTICS - IN VALUE OF CONSUMPTION (2019)¹



¹ Since the percentage of each application was reported because of the nature of the source for defining the class of plastic products. In addition, the term "Others" was included and refers to the remaining of inputs.

Source: Latin American
Services and Market Information Services,
Industry and Manufacturing Committee

LIFE CYCLE ASSESSMENT (LCA) | METHODOLOGY FOR PRODUCT EVALUATION

LCA studies the environmental aspects and potential impacts throughout the life of a product (i.e. from "cradle-to-grave" or "cradle-to-cradle"), from raw material acquisition/fabrication, through production, use, post-use, proper disposal and reintroduction into the production cycle. General categories of environmental impacts that need to be considered include resource use, human health and ecological consequences (adapted from DIN ISO 14040:2001).

House Paint Bucket (PP)



Assessing all impact categories together, the plastic bucket is less harmful to the environment than traditional packaging. The use of plastic buckets is less impactful for global warming.

Chocolate Milk Packaging (PE)



Even with a lower recycling rate, the plastic alternative is the best option, reducing, for example, the environmental impact related to global warming.

Non-woven surgical kit (TNT-PP)



The non-woven option does not require washing, sanitizing or chemical products for sterilization, and consumes less water in its life cycle, thus reducing the environmental impact, in addition to being more effective in preventing hospital infections.

Raffia bags (PP)



The raffia bag is reusable, as it is more resistant and safer; it is lighter, and it has less environmental impact in the distribution stage due to the reduction of fuel consumption in transport. Another advantage is its resistance to humidity and tearing, preventing losses of the packaged product. Raffia bags also consume less water in its life-cycle when compared to other material.

Disposable cup (PP)



The plastic cup is lighter, uses less water in its production process and is recyclable. The use of the plastic cup reduces the environmental impact on land use when compared to the substitute.

Pallet (PE)



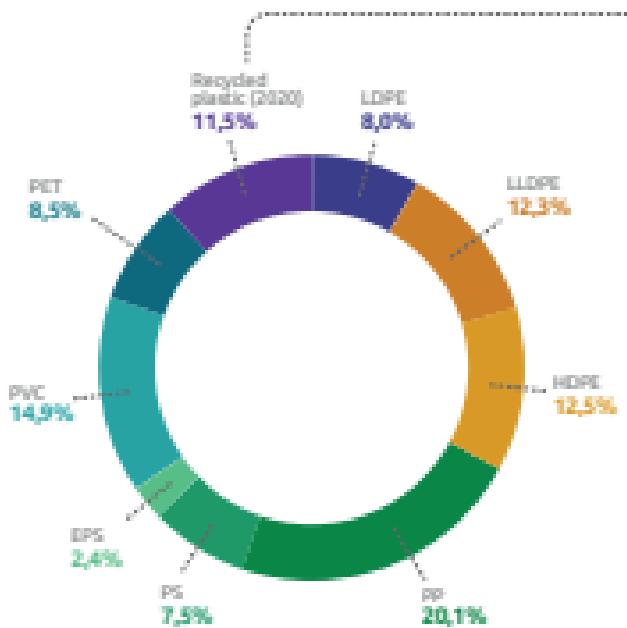
The plastic pallet allows about 34 reuses against four in substitute material, so the impacts on land use are very low.

[Learn more about materials](#)

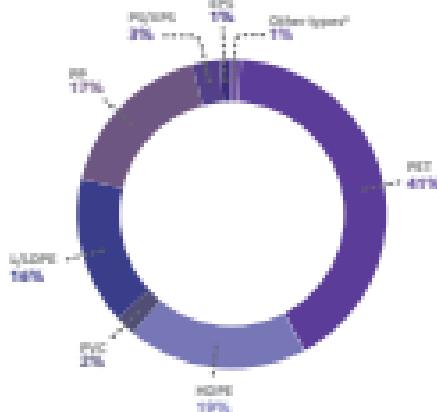
[Click for full study](#)



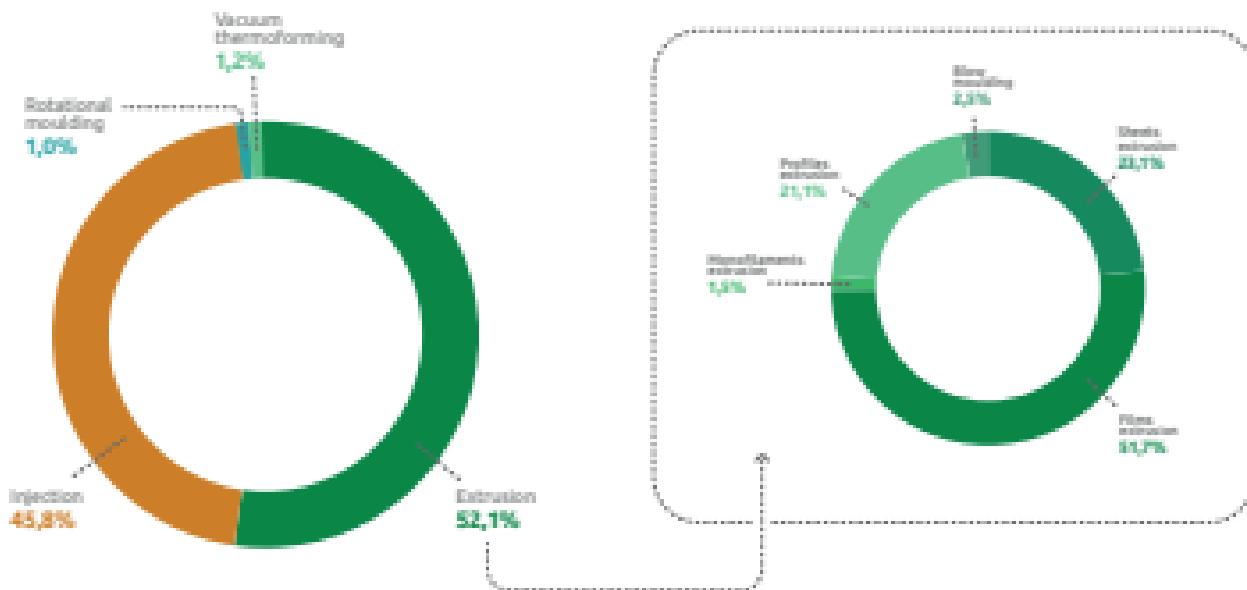
MAIN RESINS CONSUMED IN BRAZIL % (2021)



PRODUCTION OF POST-CONSUMER RESIN - PCR (2020)



PRODUCTIVE PROCESSES FOR MANUFACTURING PROCESSED PLASTICS



PRODUCTIVE PROCESSES FOR MANUFACTURING PROCESSED PLASTICS

EXTRUSION

Consists of forcing the controlled passage of the cast plastic material through a cylinder and upon its exit; the material is compressed in a matrix into the desired shape of the product. This process is used to make, for instance, sheets, profiles, or films for later finish.



Blow moulding:

Consists in the extrusion of a "parison" commonly known as parison which is inserted into a mould and by compressed air injected inside forms a hollow product. It is the process used to make bottles, gallons, packaging for foods, cosmetics, cleaning products, and automotive tanks.

Profiles extrusion:

Used to make pipes, coated cables, wires, and hoses for civil construction.

Monofilaments extrusion:

To make continuous and fine filaments, such as fishing lines, brush and broom bristles, and when braided they originate products such as ropes, cables, fishing nets, screens in general, etc. Fibres for the textile industry can also be made.

Sheets extrusion:

Used to make sheets and plates that will be used as input for the production of thermoformed packaging and white-line accessories, such as refrigerators and microwave ovens.

Films extrusion:

Produces very fine, mono and multilayer films that will be later used to make flexible packaging.

PRODUCTIVE PROCESSES FOR MANUFACTURING PROCESSED PLASTICS



INJECTION

This process gives very specific details to the products such as threads, holes, and perfect fitting, and is very much used in the auto parts industry (such as car dashboards) making intermediate products that serve as inputs for the automotive industry and also to produce household items intended for the end consumer.

ROTATIONAL MOULDING

Used to make hollow products such as toy pieces (doll heads and parts) or large parts such as agricultural machine and water tanks.

VACUUM THERMOFORMING

Process to mould parts by using plates or sheets (made by extrusion). Consists of heating the sheet with a certain vacuum to remove the air caught between the sheet and the mould to enable the forming of the final part. This technique is used to manufacture products such as disposable utensils, trays, autoparts, etc.

OTHER PROCESS

BLOWN INJECTION

The Blown injection is a variation very much used to make PET bottles, combining both injection (pre-mould) and blown (PET bottles) processes in the same machine.

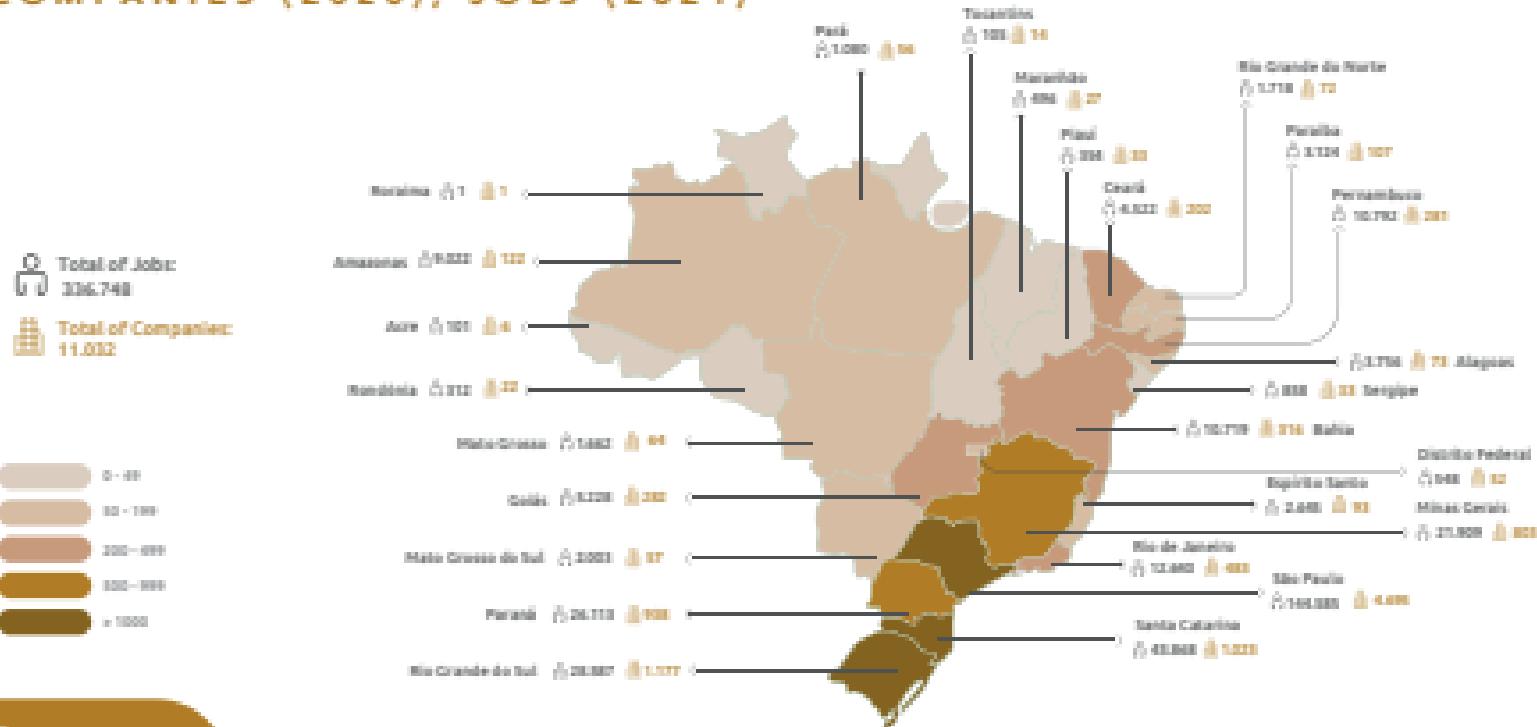


THE PROCESSED PLASTICS INDUSTRY IN BRAZIL

ABIPLAST | THE PLASTIC TRANSFORMATION
AND RECYCLING INDUSTRY IN BRAZIL



LOCATION OF COMPANIES AND JOBS OF THE PROCESSED PLASTICS SECTOR IN BRAZIL, BY STATE. COMPANIES (2020), JOBS (2021)



DISTRIBUTION OF COMPANIES AND JOBS OF THE PROCESSED PLASTICS SECTOR, BY STATE



10 of 10

100

Name	Zeit [min]	Partizipation am Rennen (%)
Kira Pfeiffer	1:00:000	100%
Sophia Kästner	1:00:000	100%
Max Grünwaldt von Kal	1:00:000	100%
Paulina	1:00:000	100%
Julia Schmid	1:00:000	100%
Maximilian	1:00:000	100%
Lea von Jäger	1:00:000	100%
Patricia	1:00:000	100%
Anna	1:00:000	100%
Leonardo	1:00:000	100%
Sophie	1:00:000	100%
Claudia	1:00:000	100%
Elisabeth	1:00:000	100%
Magdalena	1:00:000	100%
Paulina	1:00:000	100%
Elisabeth Kästner	1:00:000	100%
Max Grünwaldt von Kal	1:00:000	100%
Max Grünwaldt von Kal	1:00:000	100%
Max Grünwaldt	1:00:000	100%
Paul	1:00:000	100%
Nicole	1:00:000	100%
Emilia Festenau	1:00:000	100%
Mathilde	1:00:000	100%
Felix	1:00:000	100%
Leonore	1:00:000	100%
Leonore	1:00:000	100%
Lea	1:00:000	100%
Lea	1:00:000	100%
LEA	1:00:000	100%

Journal of Health Politics, Policy and Law, Vol. 32, No. 4, December 2007
DOI 10.1215/03616878-32-4 © 2007 by The University of Chicago

PERIODICALLY PLASTIC DEFORMATION AND INCREASING INDUCTANCE IN IRIDIUM

ECONOMY IMPACTS OF THE SECTOR

The present
position under
international
protection
is as follows:

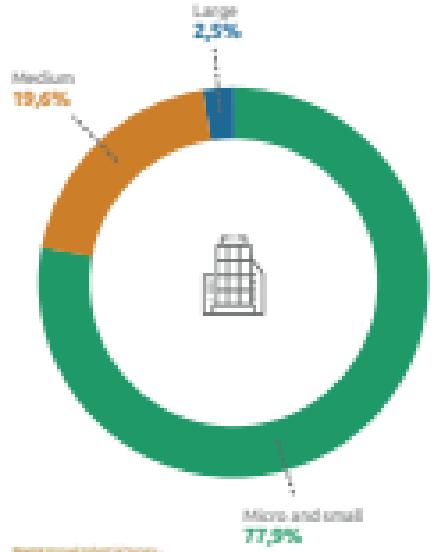
For each \$100,000
month of additional
production in the
presented
mining sector

The total production
will remain stable
in the economy

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- Jobs (2021): 136,248
 - Companies (2021): 11,032
 - Revenue (2021): R\$ 127,5 billion
 - Physical production (2021): 7,1 million de tons/da

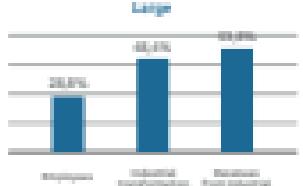
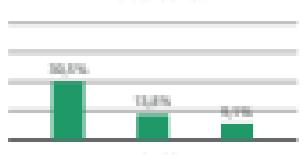
DISTRIBUTION OF COMPANIES BY REVENUES (2019)



Micro and small

Medium

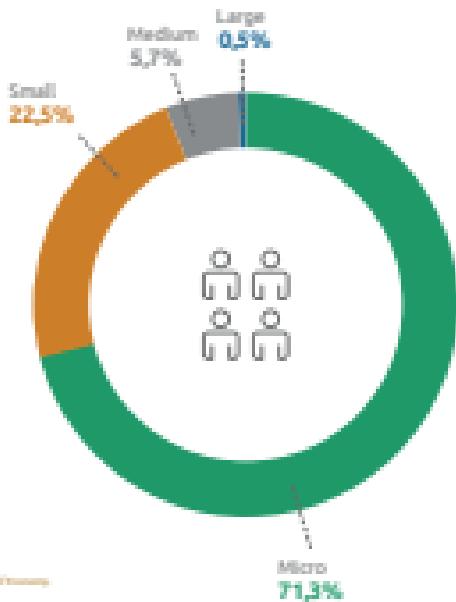
Large



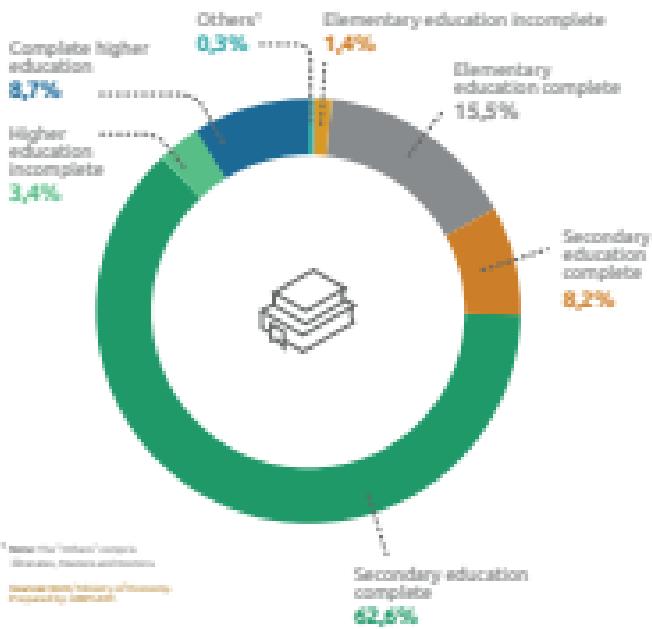
Estar em **TODO LUGAR**,
de forma **SUSTENTÁVEL**...
e **INOVADORA** transformar
a vida das **PESSOAS**



DISTRIBUTION OF COMPANIES BY STAFF HIRED (2021)



EDUCATIONAL LEVEL IN THE PROCESSED PLASTICS SECTOR (2020)

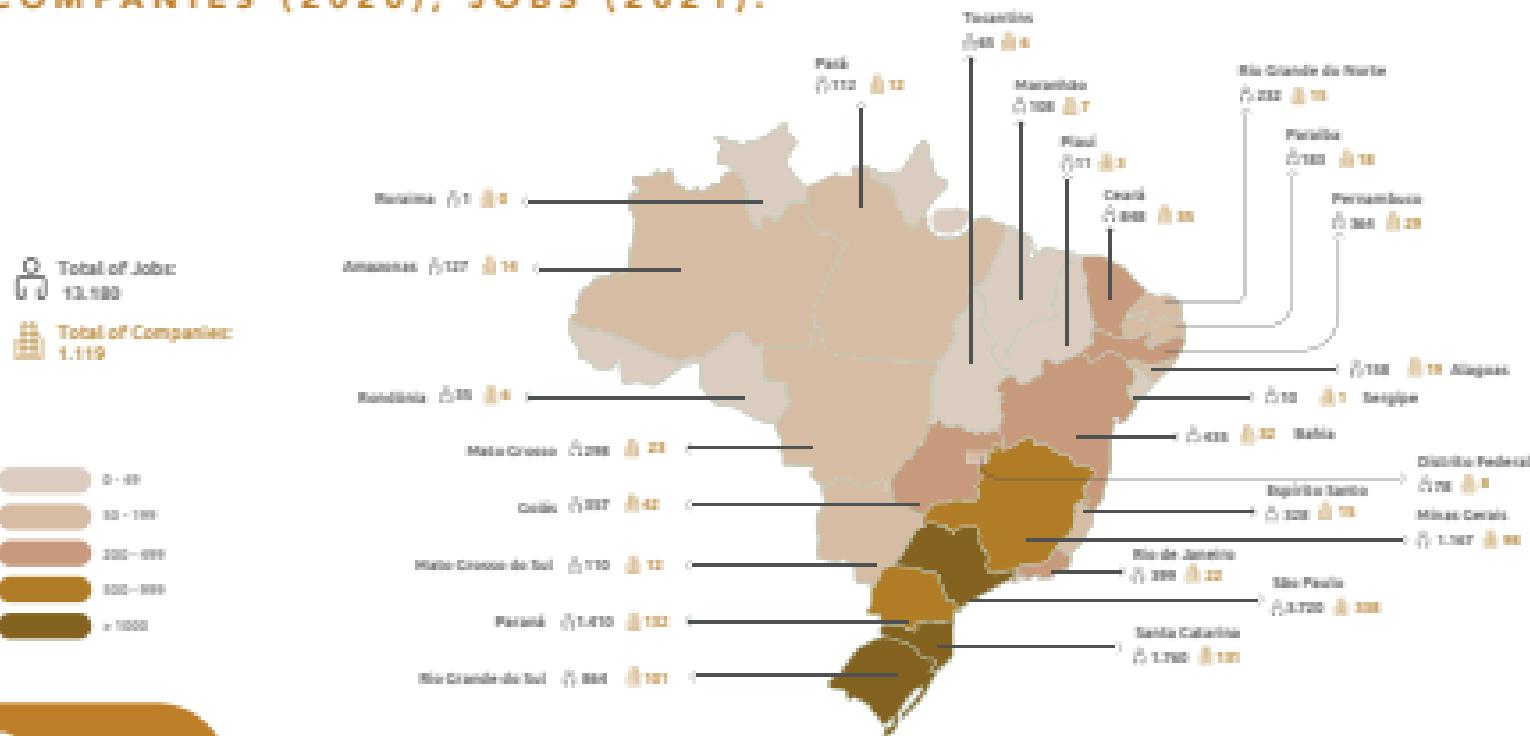




THE PLASTIC MATERIAL RECYCLING INDUSTRY IN BRAZIL



LOCATION OF COMPANIES AND JOBS OF THE PLASTIC MATERIAL RECYCLING SECTOR, BY STATE. COMPANIES (2020), JOBS (2021).



DISTRIBUTION OF COMPANIES AND JOBS OF THE PLASTIC RECYCLING SECTOR, BY STATE

ESTADOS UNIDOS		ESTADOS UNIDOS	
Nombre	Comisión 2000	Participación electoral (%)	Participación electoral (%)
Six Points	0.00	0.00%	0.00%
Pearl	0.00	0.00%	0.00%
Santa Catalina	0.00	0.00%	0.00%
San Joaquín de Ica	0.00	0.00%	0.00%
Miraflores	0.00	0.00%	0.00%
Cerro	0.00	0.00%	0.00%
Cerro	0.00	0.00%	0.00%
Rímac	0.00	0.00%	0.00%
Penitenciaria	0.00	0.00%	0.00%
Chosica	0.00	0.00%	0.00%
San Isidro	0.00	0.00%	0.00%
Chapín	0.00	0.00%	0.00%
Parque	0.00	0.00%	0.00%
San Juan de Lurigancho	0.00	0.00%	0.00%
Agustín Gómez	0.00	0.00%	0.00%
Chorrillos	0.00	0.00%	0.00%
Surco	0.00	0.00%	0.00%
San Juan de Lurigancho	0.00	0.00%	0.00%
Agustín Gómez	0.00	0.00%	0.00%
Chorrillos	0.00	0.00%	0.00%
Surco	0.00	0.00%	0.00%
Parque	0.00	0.00%	0.00%
San Juan de Lurigancho	0.00	0.00%	0.00%
Agustín Gómez	0.00	0.00%	0.00%
Chorrillos	0.00	0.00%	0.00%
Surco	0.00	0.00%	0.00%
Parque	0.00	0.00%	0.00%
Kingsgate	0.00	0.00%	0.00%
TOTAL	0.00	0.00%	0.00%

卷之三



SUSTENTABILIDADE, TECNOLOGIA E INOVAÇÃO

**Maior produtora, transformadora
e recicladora de plástico da América Latina**



Investimento e foco em inovação sustentável



37 plantas
em 5 países

METAS
AUDACIOSAS

- Net Zero 2040
 - Reciclar equivalente 100% do volume produzido

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e redes sociais:



FLOW OF MECHANICAL RECYCLING OF PLASTICS MATERIALS



Jobs (2021): 13,100



Companies (2020): 1,119



Physical production of post-consumer resin (2020): 204,4 thousand tons



Revenues of post-consumer recycling (2020): 681,1 billion

SOURCE: INRAE, INSTITUT NATIONAL DE RECHERCHES EN AMÉNAGEMENT, ENVIRONNEMENT ET DÉVELOPPEMENT DURABLE, RECYCLAGE DES PLASTIQUES ET PLASTIQUES RECUPÉRÉS.

Each 1 ton of recycled material produced:

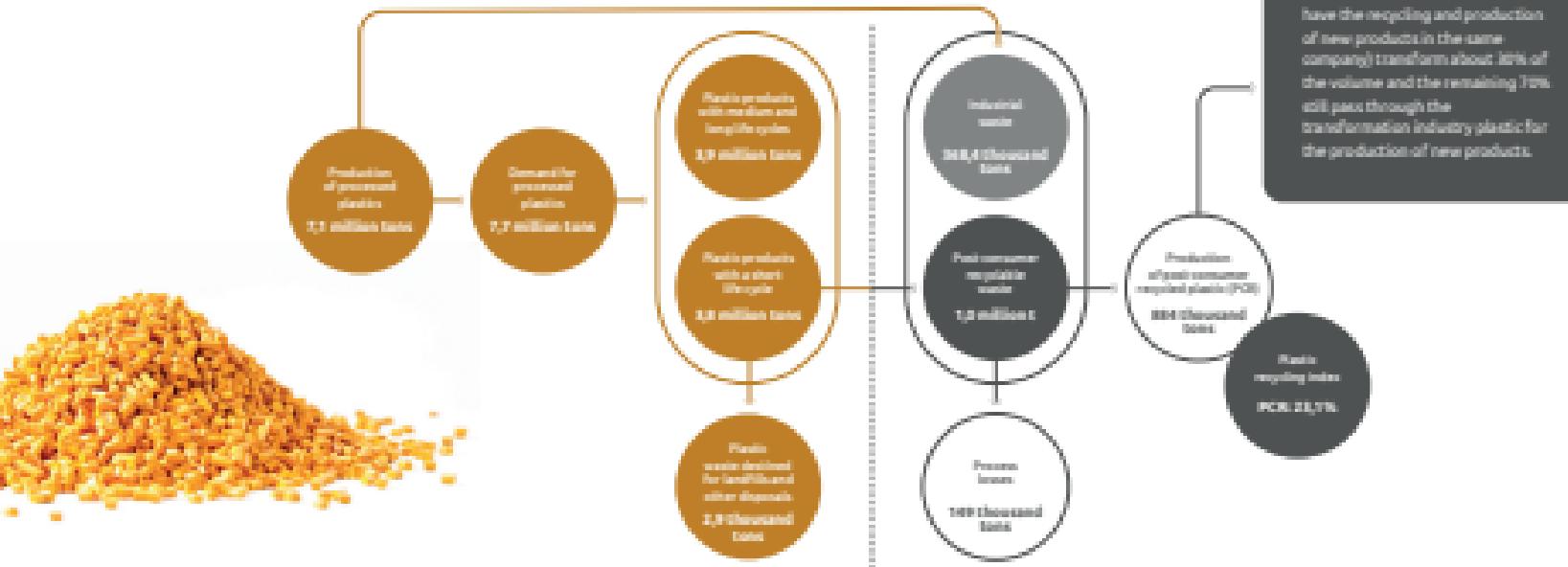
- Reduces on average 1,1 ton of plastic waste left in landfill;
- Employs 1,16 waste pickers to collect this volume of material every month.

INRAE, INSTITUT NATIONAL DE RECHERCHES EN AMÉNAGEMENT, ENVIRONNEMENT ET DÉVELOPPEMENT DURABLE

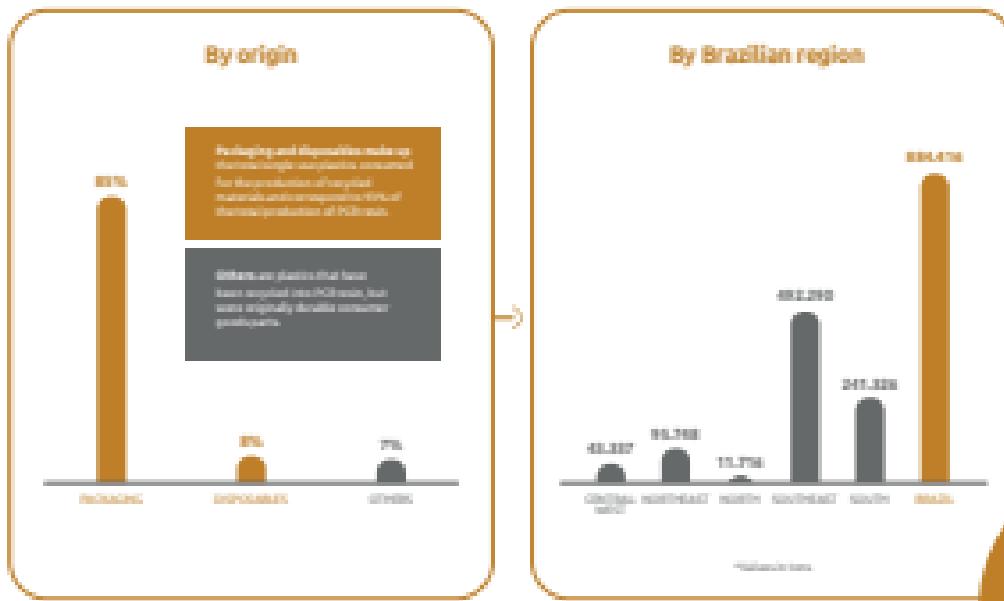
MECHANICAL RECYCLING POST-CONSUMER PLASTIC MECHANICS IN BRAZIL (2020)

The data presented in this section are from the HaxiQuim Recycling Survey, requested by PICPlast.

This section included the elaboration of AMPLAST.



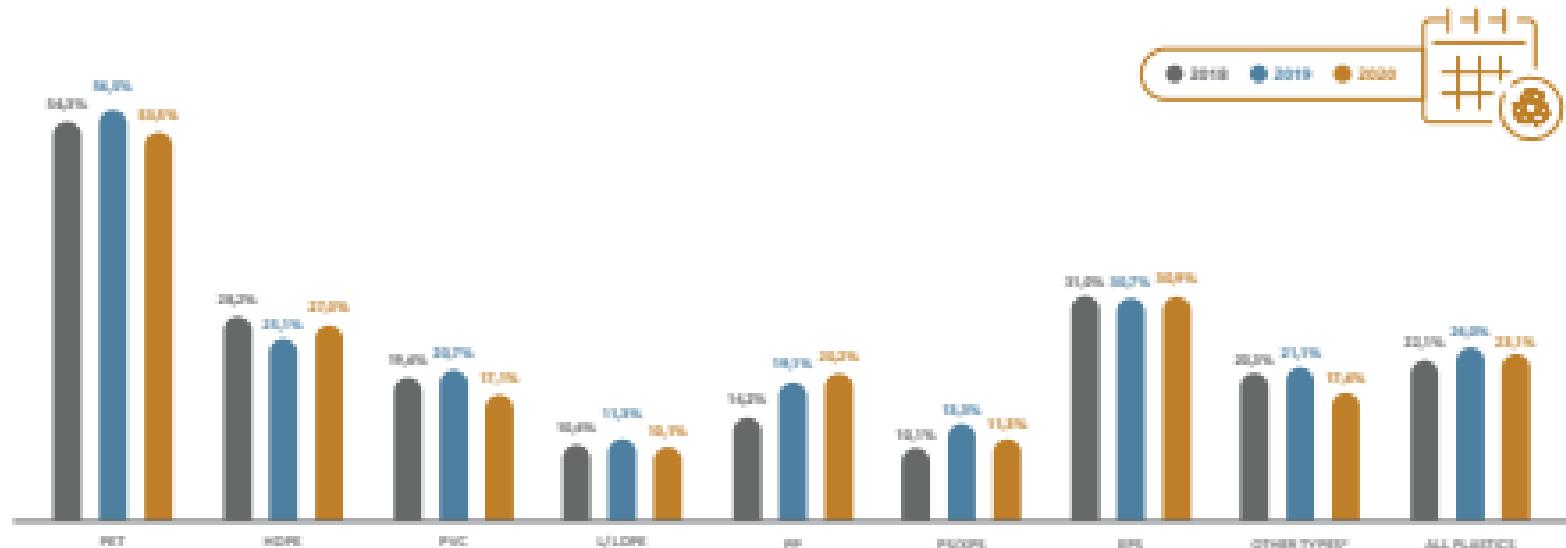
PRODUCTION OF POST-CONSUMER RECYCLED PLASTIC (PCR) IN 2020



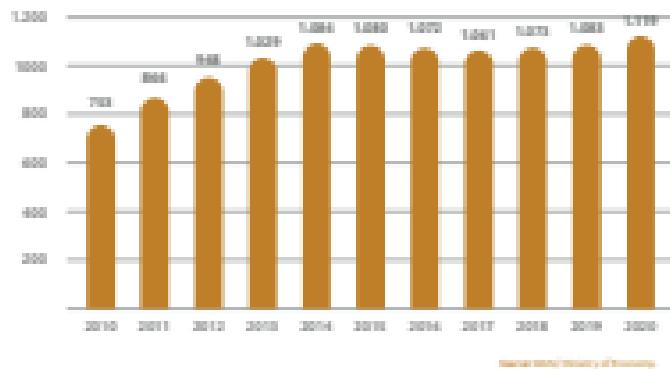
Production
of Post-Consumer
Recycled Plastic (PCR)
884
thousand
tons

HISTORY OF THE POST-CONSUMER PLASTIC RECYCLING (PCR) INDEX

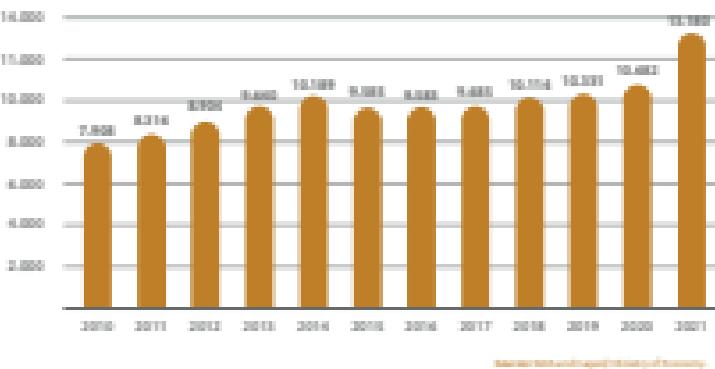
By type of plastic material:



PLASTIC MATERIAL RECYCLING COMPANIES IN BRAZIL



JOB IN THE PLASTIC MATERIAL RECYCLING INDUSTRY IN BRAZIL



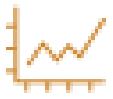
HOW TO IDENTIFY
THE TYPES OF
MATERIALS IN
PLASTIC PRODUCTS?



1 - Poly (ethylene terephthalate)
2 - High-density polyethylene
3 - Poly (vinyl chloride)
4 - Low-density polyethylene

5 - Polypropylene
6 - Polystyrene
7 - Others

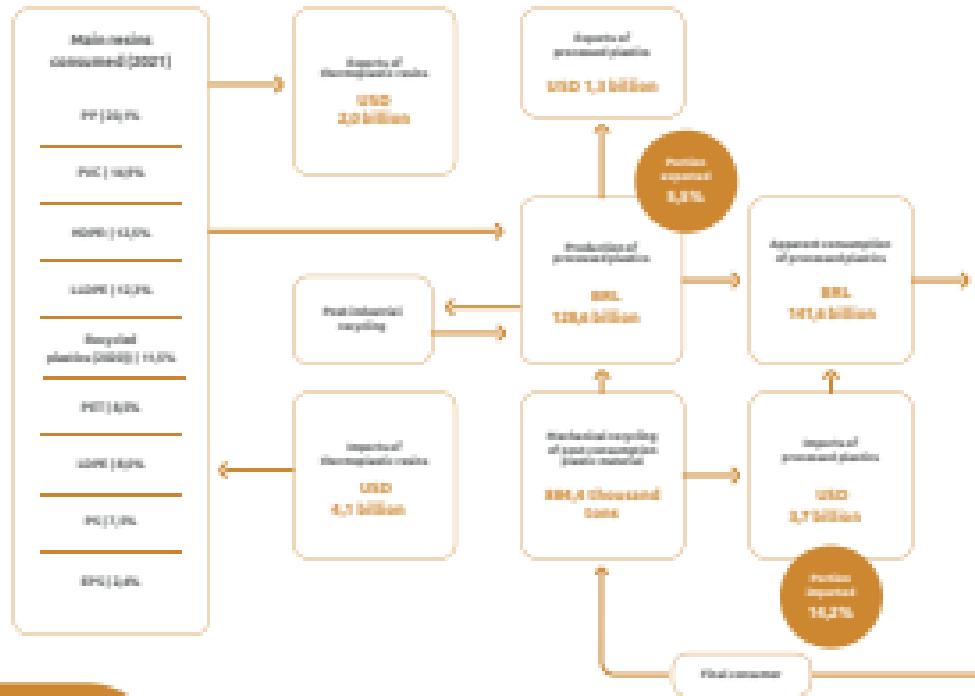
Fonte: www.plasticsrecycling.org.br
Foto: www.plasticsrecycling.org.br



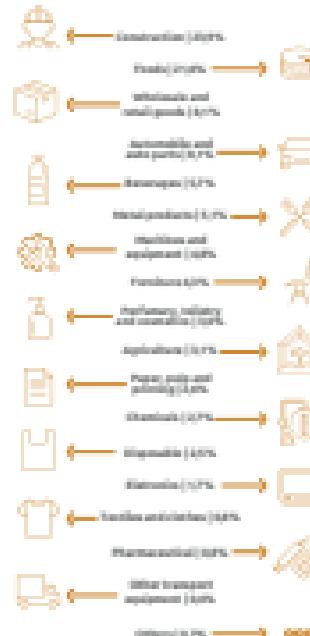
PERFORMANCE OF BRAZILIAN PROCESSED PLASTIC INDUSTRY



SUMMARY OF THE PLASTIC PRODUCTIVE CHAIN IN BRAZIL

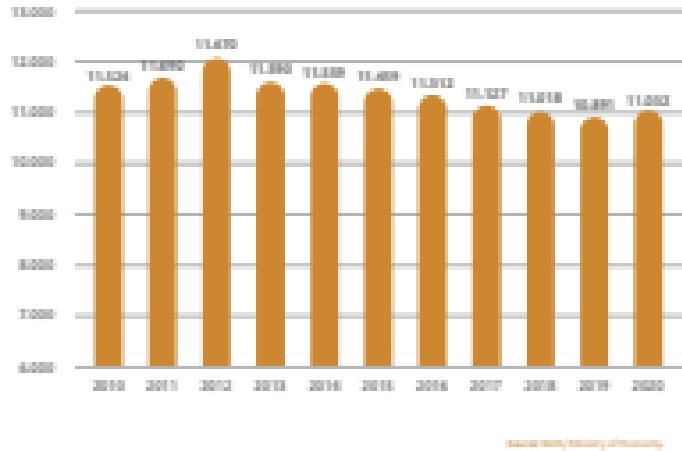


Consumer demand of plastic products (2011)

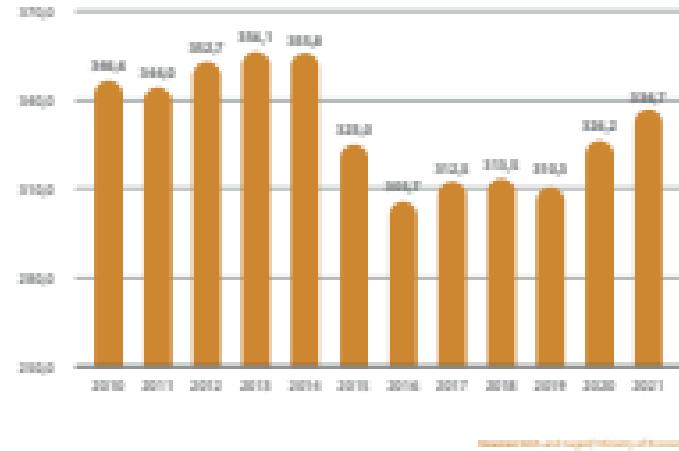


During the period of the Second World War, many Japanese families were separated from their loved ones due to the war.

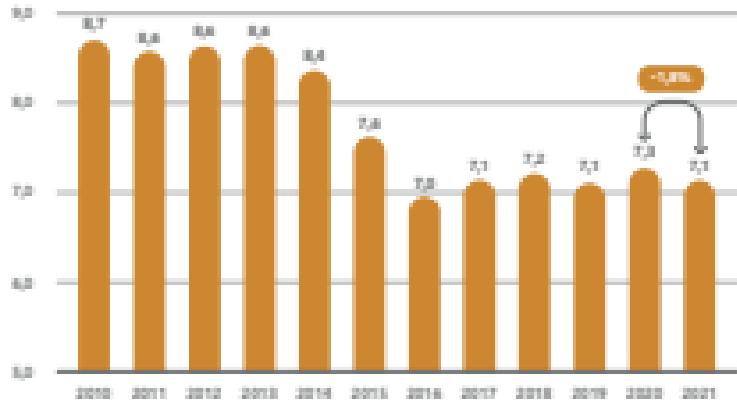
COMPANIES IN THE PROCESSED PLASTICS SECTOR



JOBs IN THE PROCESSED PLASTICS SECTOR (IN THOUSAND JOBS)



PRODUCTION OF PROCESSED PLASTICS (IN MILLION TONS)



Despite the good prospects for 2021 at the beginning of that year, mainly due to the start of vaccination against covid-19, the plastic processed products industry lost strength over the months, especially from the second half of 2021.

The sector registered a retraction of (-1.3%) compared to 2020. Given the 3.7% growth of the sector in 2020, it is clear that part of the significant growth presented between the second and third quarter of that year was offset in 2021.

Fonte: IBGE - Instituto Brasileiro de Geografia e Estatística - Indústria de transformação, produção e comércio de mercadorias, serviços e outras atividades.

PEBOL 2021 - THE PLASTIC TRANSFORMATION AND PROCESSING INDUSTRY IN BRAZIL

NASCEMOS PARA OFERECER SOLUÇÕES

O plástico é necessário na produção de inúmeros produtos fundamentais do dia a dia e, com uso consciente, torna-se um grande aliado do meio ambiente. O crescimento nesse setor a Sansuy busca desenvolver soluções que possam contribuir com uma sociedade mais sustentável.



ECONOMIA CIRCULAR

Diferente da cultura de produção clássica de PVC, onde se produz para vender para o público, produzemos para reciclar.



ÁGUA FRIA

Impressoras para água de impressão térmica e transferência de água, tintas ecológicas e especialistas em complexos sistemas hidráulicos de águas tratadas.



VÍNCULOS

Colaboradores especializados em engenharia, técnicas de impressão e compostagem e reciclagem de desenroladeiras para confecção de cana-de-açúcar.



VISÃO RECICLAGEM

Desenvolvemos tecnologias para a transformação de depósitos e resíduos orgânicos e inorgânicos, de forma econômica e sustentável.



VÍNCULOS INDUSTRIAL

Soluções inovadoras de manutenção de sistemas hidráulicos e estruturais, polímeros e inovações, sempre voltadas para o meio ambiente.



VISÃO INDUSTRIAL

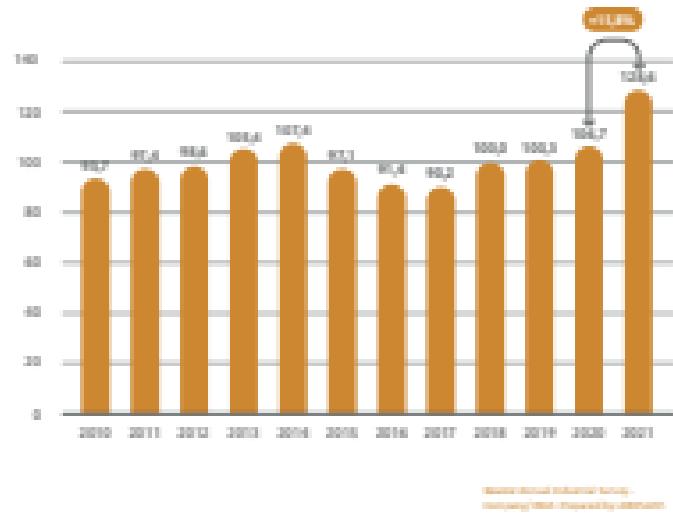
Inovações de tecnologia para implementação de novas fábricas, novas estruturas e proteção de solo.



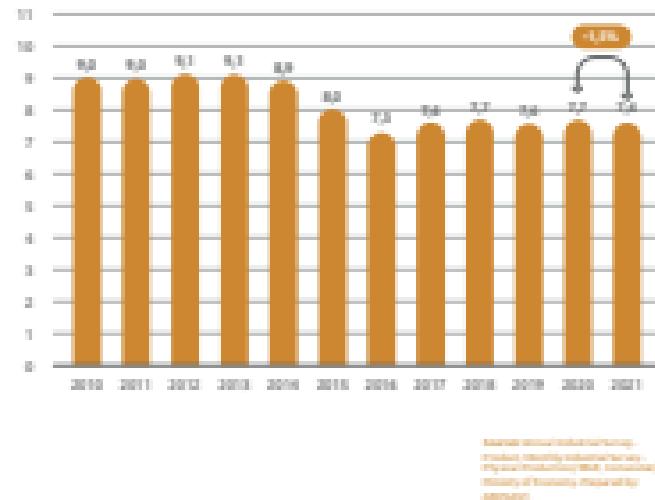
VÍNCULOS ESTACIONÁRIO E PÚBLICO

Desenvolvemos sistemas para estacionamentos, transportes e logística urbana, através de novas gerações e tecnologias inovadoras, sempre com foco no meio ambiente e no Brasil.

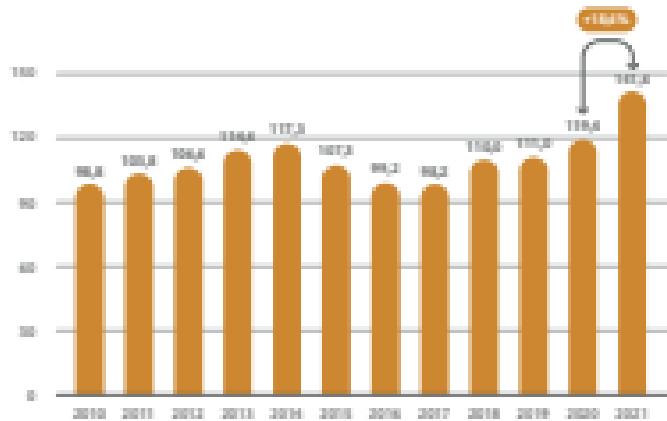
PRODUCTION OF PROCESSED PLASTICS (IN BRL BILLION AT CURRENT 2021 PRICES)



APPARENT CONSUMPTION OF PROCESSED PLASTICS (IN MILLION TONS)



APPARENT CONSUMPTION OF PROCESSED PLASTICS (IN BRL BILLION AT CURRENT 2021 PRICES)

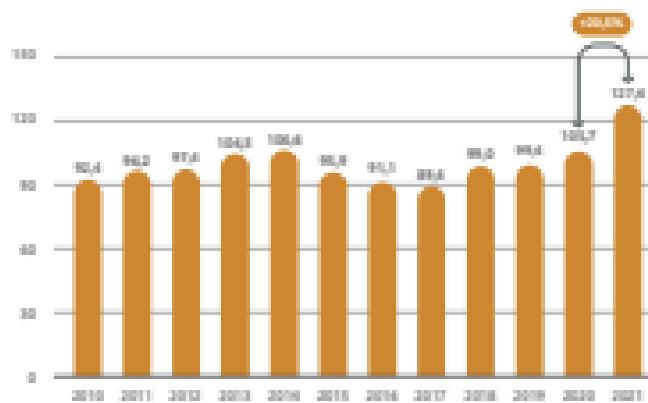


SOURCE: CONFEDERAÇÃO BRASILEIRA DA INDÚSTRIA PLÁSTICA (CPIB)
ESTIMATIVA DE CONSUMO DE PLÁSTICOS
PROCESSADOS (EM MILHÕES DE MILHÕES DE REAIS)
REFLETINDO PREÇOS ATUAIS.



ABIPLOST 2021 | THE PLASTIC TRANSFORMATION
AND INNOVATION INDUSTRY IN BRAZIL

REVENUES OF PROCESSED PLASTICS (IN BRL BILLION AT CURRENT 2021 PRICES)



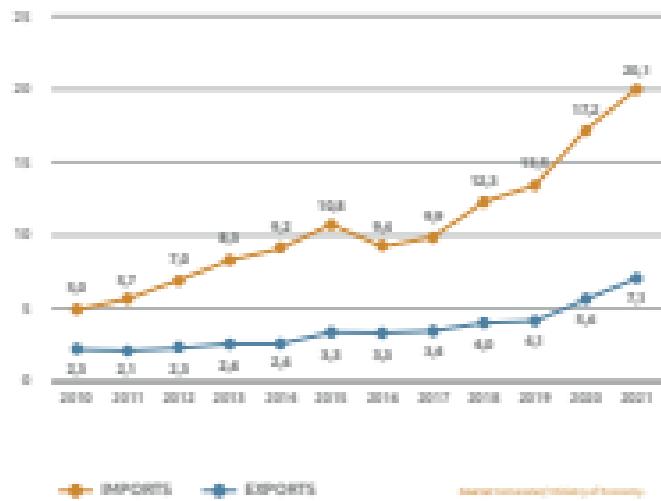
SOURCE: CONFEDERAÇÃO BRASILEIRA DA INDÚSTRIA PLÁSTICA (CPIB)
ESTIMATIVA DE REVENUE DE PLÁSTICOS
PROCESSADOS (EM MILHÕES DE MILHÕES DE REAIS)
REFLETINDO PREÇOS ATUAIS.

PROCESSED PLASTICS EXPORTS AND IMPORTS (IN THOUSAND TONS)

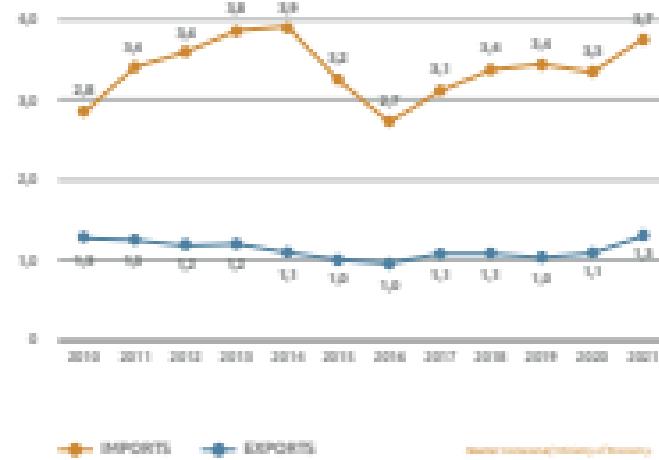


Source: Commodity Ministry of Economy.

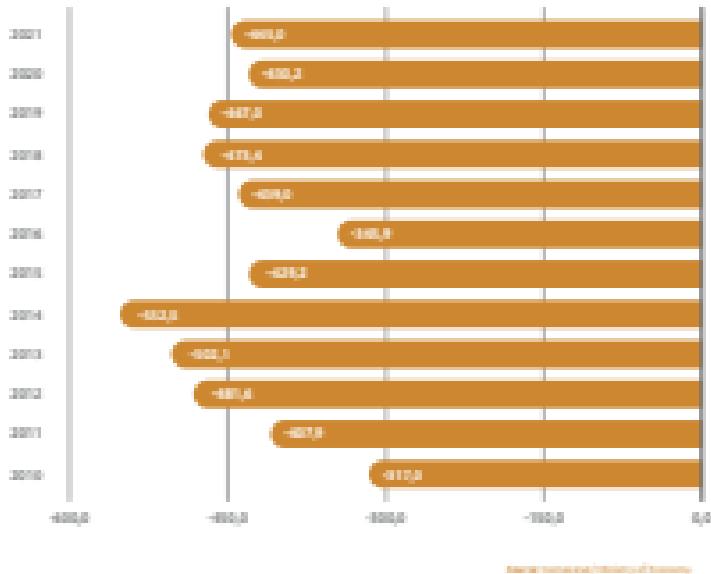
PROCESSED PLASTICS EXPORTS AND IMPORTS (NOMINAL IN BRL BILLION)



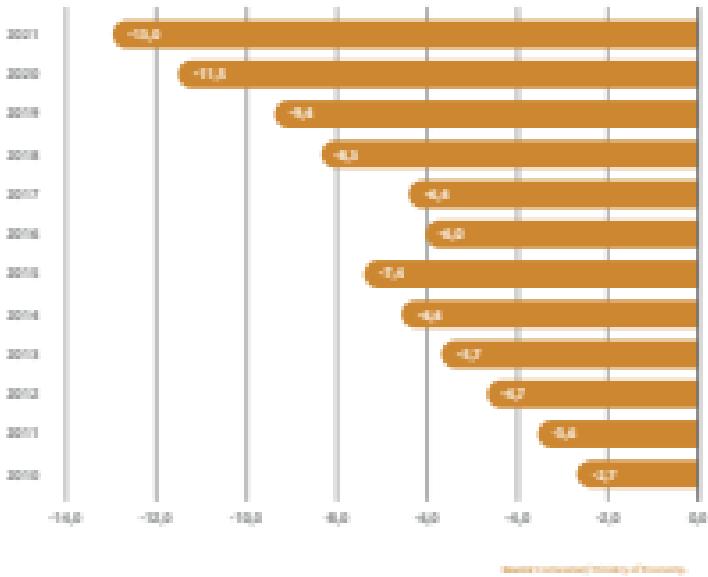
PROCESSED PLASTICS EXPORTS AND IMPORTS (NOMINAL IN USD BILLION)



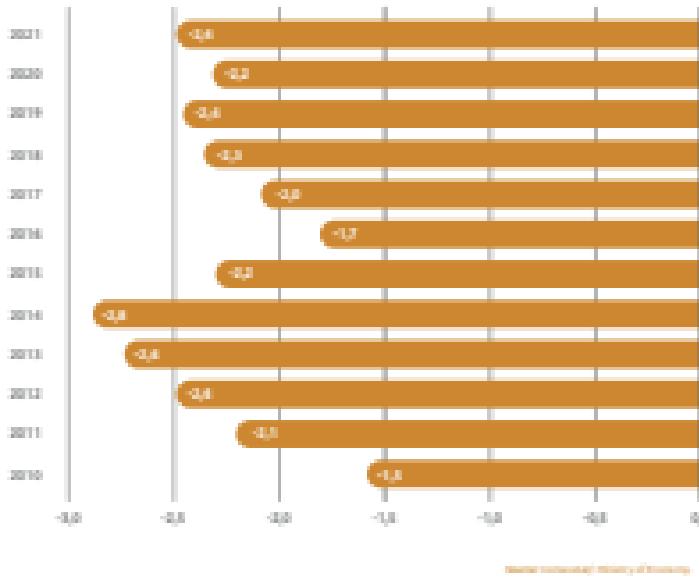
COMMERCIAL BALANCE OF PROCESSED PLASTICS (IN THOUSAND TONS)



COMMERCIAL BALANCE OF PROCESSED PLASTIC (NOMINAL IN BRL BILLION)



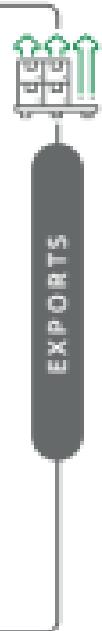
COMMERCIAL BALANCE OF PROCESSED PLASTIC (NOMINAL IN USD BILLION)



MAIN DESTINATIONS OF EXPORTS OF PROCESSED PLASTICS

Country	Quantity (in tons)	%	USD (millions)	% USD
Argentina	20,000	20,0%	116,070	21,0%
United States	10,000	10,0%	106,607	14,1%
Paraguay	10,000	10,0%	105,607	9,9%
Chile	10,000	10,0%	104,607	9,9%
Uruguay	10,000	10,0%	103,607	9,9%
Colombia	10,000	10,0%	102,607	9,9%
Mexico	10,000	10,0%	101,607	9,9%
Bolivia	10,000	10,0%	100,607	9,9%
Spain	10,000	10,0%	99,607	9,9%
Peru	10,000	10,0%	98,607	9,9%
Brazil	10,000	10,0%	97,607	9,9%
Costa Rica	10,000	10,0%	96,607	9,9%
Germany	10,000	10,0%	95,607	9,9%
Dominican Republic	10,000	10,0%	94,607	9,9%
Costa Rica	10,000	10,0%	93,607	9,9%
Canada	10,000	10,0%	92,607	9,9%
Others	20,000	20,0%	107,607	21,1%
Total	100,000	100%	1,000,000	100%

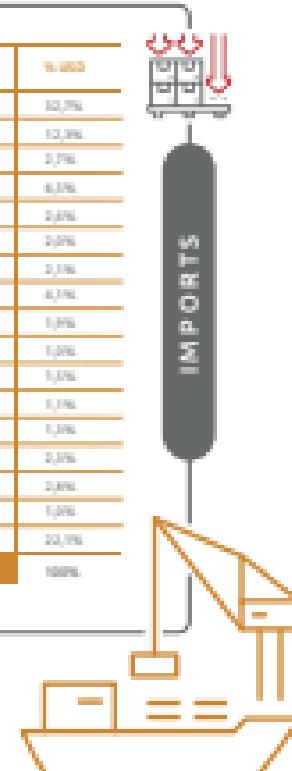
SOURCE: COUNCIL OF PLASTIC INDUSTRY

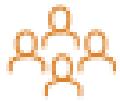


MAIN ORIGINS OF IMPORTS OF PROCESSED PLASTICS

Country	Quantity (in tons)	%	USD (millions)	% USD
China	200,000	20,0%	1,200,000	20,0%
United States	100,000	10,0%	600,000	10,0%
India	90,000	9,0%	500,000	8,3%
Germany	80,000	8,0%	400,000	6,7%
South Korea	80,000	8,0%	300,000	5,0%
Paraguay	80,000	8,0%	200,000	3,3%
Argentina	80,000	8,0%	100,000	1,7%
Italy	80,000	8,0%	100,000	1,7%
Ireland	80,000	8,0%	80,000	1,3%
Peru	80,000	8,0%	80,000	1,3%
Chile	80,000	8,0%	60,000	1,0%
Mexico	80,000	8,0%	60,000	1,0%
Taiwan (Formosa)	80,000	8,0%	40,000	0,7%
Morocco	80,000	8,0%	40,000	0,7%
Russia	80,000	8,0%	30,000	0,5%
Colombia	80,000	8,0%	30,000	0,5%
Others	120,000	12,0%	500,000	8,3%
Total	1,000,000	100%	5,000,000	100%

SOURCE: COUNCIL OF PLASTIC INDUSTRY





UNIONS AND ASSOCIATIONS



STATE UNIONS OF THE PLASTIC INDUSTRY

ALAGOAS (AL)

SIMPLAST/AL - Sindicato das Indústrias de Plásticos e Tintas do Estado de Alagoas
Avenida Fernando Lima, 385 - 5º andar - Edifício Casa da Indústria Nápolis de Barreiros - CEP: 57055-900 - Maceió - AL
Phone: (82) 2121-6995
E-mail: simplant@flea.com.br
www.simplast-al.org.br
President: Clíver Severiano Leite

BAHIA (BA)

SINDIPLASMA - Sindicato da Indústria de Material Plástico do Estado da Bahia
Avenida Santos Dumont, 6061, 5º andar, sala 51
Edifício André Gómmaries Hellmeyer - CEP: 40390-000
Lauro de Freitas - BA
Phone: (71) 3379-4066
E-mail: sindiplasma@sindiplasba.org.br
www.sindiplasba.org.br
President: Luiz Antônio de Oliveira

GOIÁS (GO)

SIMPLAGO - Sindicato das Indústrias de Material Plástico no Estado de Goiás
Rua 200 Qd. 67 C Lts. 01/05, 1.121 - Setor Leste Vila Nova
Edifício Pedro Alves de Oliveira - CEP: 74404-230
Goiânia - GO - Phone: (62) 3224-5403 | (62) 98403-0013
E-mail: simplago@listamail.org.br
simplago.go@gmail.com
www.sindicatodaindustria.com.br/simplago
President: Luiz Antônio Magalhães

AMAZONAS (AM)

SIMPLAST - Sindicato das Indústrias de Material Plástico de Manaus
Avenida Fábio Lucena, 1460 - 3º andar
cj. 31 - CEP: 69070-000 - Manaus - AM
Phone: (92) 3237-3817
E-mail: simplant@simplant-am.org.br
www.simplast-am.org.br
President: Cláudio Antônio Barcelos

ESPIRITO SANTO (ES)

SINDIPLASTES - Sindicato da Indústria de Material Plástico do Espírito Santo
Avenida Nossa Senhora da Penha, 2003,
5º andar, Santa Lúcia - CEP: 29045-401 - Vitória - ES
Phone: (27) 3234-5822 / (27) 99999-8199
E-mail: superintendencia@sindiplastes.org.br
www.sindiplastes.org.br
President: Neilton Helmer Casparini

MINAS GERAIS (MG)

SIMPLAST - Sindicato das Indústrias de material Plástico do Estado de Minas Gerais
Avenida do Contorno, 4456 - 6º andar
Edifício Robson Braga de Andrade - Bairro Funcionários
CEP: 30110-029 - Belo Horizonte - MG
Phone: (31) 3221-6257
E-mail: simplant@simplant.com.br
www.simplast.com.br
President: Ivana Sepa Braga

STATE UNIONS OF THE PLASTIC INDUSTRY

SINDIPLAST - Sindicato das Indústrias de Material Plástico de Uberaba

Praca Frei Eugenio, 365 - São Benedito
CEP: 38010-280 - Uberaba - MG
Phone: (34) 3313-2711 | (34) 3310-1277
E-mail: sindiplastub@hinet.com.br
President: Delvania dos Reis Pires Resende

PARAÍBA (PB)

SINDIPLAST/PB - Sindicato da Indústria de Material Plástico e Resinas Sintéticas do Estado da Paraíba

Rua Manoel Gonçalves Guimarães, 195
João Pessoa - CEP: 58047-360 - Campina Grande - PB
Phone: (83) 3331-6364
Cel: (83) 98754-6218
E-mail: sindiplastpb@gmail.com
www.sindicatodaindustria.com.br/sindiplastpb
President: Fábio Felinto de Araújo

PARANÁ (PR)

SIMPEP - Sindicato da Indústria de Material Plástico no Estado do Paraná.
Rua Júlio Negri, 731 - 3º andar - Conjunto 301/302
CEP: 80210-280 - Curitiba - PR

Phone: (41) 3224-9163
E-mail: simpep@simpep.com.br
www.simpep.com.br
www.simpes.org.br

President: Eliseu Avelino Zanella

SIMPLAS/NP - Sindicato da Indústria de Material Plástico do Norte do Paraná

Rua Pernambuco, 390 - 12º andar - sala 1200 - CEP:
84000-013 - Londrina - PR
Phone: (43) 3337-1190
E-mail: simplas@verconcel.com.br
www.simplasn.org.br

President: Suelli Sozzi Baptista

PERNAMBUCO (PE)

SIMPPE - Sindicato das Indústrias do Material Plástico do Estado de Pernambuco

Avenida Cruz Cabugá, 767 - 5º andar
sala dos Sindicatos - Santo Amaro
CEP: 50040-000 - Recife - PE
Phone: (81) 3413-1823 | Celular: (81) 99072-4454
E-mail: simppe@fipep.org.br
www.simppe.org.br

President: Gleice Batista Santos

RIO DE JANEIRO (RJ)

SIMPORJ - Sindicato da Indústria de Material Plásticos do Estado do Rio de Janeiro

Rua Santa Lúcia, 776 - sala 203 - Centro
CEP: 20010-040 - Rio de Janeiro - RJ
Phone: (21) 2220-8726
E-mail: simporj@simporj.org.br
www.simporj.org.br

President: Gladstone José dos Santos Junior

STATE UNIONS OF THE PLASTIC INDUSTRY

RIO GRANDE DO NORTE (RN)

SINDEPLAST - Sindicato das Indústrias de Material e Laminados Plásticos do Estado do Rio Grande do Norte
Avenida Senador Salgado Filho, 2660 - 2º andar
Edifício Engenheiro Fernando Bezerra "Casa da Indústria"
Lagoa Nova - CEP: 59075-000 - Natal - RN
Phone: (84) 3204-6333 | (84) 3204-6168
E-mail: sindiplast@fiern.org.br
www.sindiplast.com.br
President: Maria da Conceição Arboegas Duarte Tavares

RIO GRANDE DO SUL (RS)

SIMPLAS - Sindicato das Indústrias de Material Plástico da Hordeste Gaúcho
Rua Ibaú Vitor Barreto, 1134 - Bairro Jardim América
CEP: 95050-520 - Caxias do Sul - RS
Phone: (54) 3013-8484
E-mail: simplus@simplus.com.br
www.simplus.com.br
President: Orlando Marin

SINPLAST - Sindicato das Indústrias de Material Plástico no Estado do Rio Grande do Sul
Avenida Asia Brasil, 8787 - Bloco 3 - Térreo
CEP: 91140-001 - Rio Grande do Sul - RS
Phone: (51) 3364-4503
E-mail: sinplast@sinplast.org.br
www.sinplast.org.br
President: Celson Albano Haas

SIMPLAVI - Sindicato das Indústrias de Material Plástico do Vale dos Vinhedos
Rua Avelino Luiz Zait, 95, salas 2 e 3 - Bairro Penhaúlio
CEP: 93700-165 - Bento Gonçalves - RS
Phone: (54) 3452-3670
E-mail: contato@simplavi.com.br
www.simplavi.com.br
1º vice president: Dairir Longhi

SANTA CATARINA (SC)

SIMPESC - Sindicato da Indústria de Material Plástico no Estado de Santa Catarina
Rua Abdon Batista, 131 - 10º andar - sala 1003
Centro - CEP: 89001-910 - Joinville - SC
Phone: (47) 3400-2351
E-mail: simpesc@simpesc.org.br
www.simpesc.org.br
President: Alvaro Schmidt

SIAPIB - Sindicato das Indústrias de Artefatos Plásticos e Brinquedos de Blumenau
Rua Paul Esterházy Schaeffer, 111 - Sala 07
CEP: 89017-020 - Blumenau - SC
Phone: (47) 3229-4525
E-mail: siaapi@terra.com.br
www.siaapi.com.br
President: Edinal Antônio Rodrigues

STATE UNIONS OF THE PLASTIC INDUSTRY

SINPLASC - Sindicato das Indústrias Plásticas do Sul Catarinense

Rua Ernesto Bianchini Córce, 9
Centro Empresarial Adic - Sala 201 - 2º andar - Balneário
Príncipes - CEP: 88015-030 - Criciúma - SC.
Phone: (48) 3461-2033 | (48) 3462-6344
sindicatospatronal@jucircri.com.br
www.sinplasc.com.br
President: Reginaldo José Cachinel

SINDIPLASC - Sindicato das Indústrias do

Material Plástico do Oeste Catarinense
Avenida Getúlio Vargas, 152 - Prédio S152
3º andar - CEP: 89001-000 - Chapecó - SC.
Phone: (48) 3326-5750
sindiplaco@gmail.com
www.sindiplaco.com.br
President: Roger dos Anjos

SP SAO PAULO (SP)

SINDIPLAST - Sindicato da Indústria de Material Plástico, Transformação e Reciclagem de Material Plástico do Estado de São Paulo
Avenida Paulista, 2409 - 1º andar - Consolação - São Paulo - SP
CEP: 01311-916 - São Paulo - SP
Phone: (11) 3060-9688
E-mail: sindiplast@sindiplast.org.br
www.sindiplast.org.br
President: José Ricardo Rosis Coelho

ASSOCIATIONS

ABIEF

ABIEF - Associação Brasileira da Indústria de Embalagens Plásticas Flexíveis
Avenida Paulista, 2439 - 1º andar - Conselheiro Oscar
CEP: 01311-936 - São Paulo - SP
Phone: (11) 3032-4092
www.abief.org.br
E-mail: abief@abief.org.br
President: Rogério Mani

INP

INP - Instituto Nacional do Plástico
Av. Presidente Dutra, 222 - Bloco C - 4º andar
CEP: 04551-065 - São Paulo - SP
Phone: (11) 2148-4779
www.inp.org.br
E-mail: inp@inp.org.br
President of the Deliberative Council:
José Ricardo Porta Coelho

ABRAPLA

ABRAPLA - Associação Brasileira da Indústria de Laminados Plásticos e Espumas Flexíveis
Avenida Paulista, 2439 - 1º andar - Conselheiro Oscar
CEP: 01311-936 - São Paulo - SP
www.abrapla.org.br
E-mail: nivio@abrapla.com
President: Jólio Batista Huber Júnior



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Associação Brasileira da Indústria de Plásticos

2019 | 2023

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Peter Bellini

2nd Secretary Director

Orivaldo Caiado Filho

1st Finance Director

Miguelito José Manz

2nd Finance Director

William Henrique Moraes

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Bengio Mafalde
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Superintendant Director

Paulo Henrique Rangel Fonseca

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Fernanda Palhares Lima
Márcia Ferreira do Nascimento
Natalia Mello Gómez
Paula Paula Lameiras de Oliveira

Pedro Camargo Rodrigues
Silvana Cavallini Lemos Pugaj
Isaure Marques Caiado Neto
Tatiane Peixoto da Silveira
Theredita Viana Torres

Commissions:
Gilmara de Araújo
Magaly Moreira

GLOSSARY

ABDI - Brazilian Agency for Industrial Development;

ABIPLAST - Brazilian Association of the Plastic Industry;

ABNT - Brazilian Association of Technical Standards;

ABS - Acrylonitrile-Butadiene-Styrene;

CAGED - Central Register of Working and Unemployed Citizens;

CNIPLAS - National Chamber of Plastic Material Recyclers;

COMEXSTAT - Foreign Trade Statistics;

COFAPI - Sectorial Chamber of Industrial Plastic Bucket Manufacturers;

EPS - Expanded polystyrene;

EU - United States of America;

EVA - Ethylene - Vinyl - Acetate;

IBGE - Brazilian Institute of Geography and Statistics;

IPEA - Institute of Applied Economic Research;

NAFTA - North American Free Trade Agreement;

NBR - Regulatory Brazilian Standard;

PA - Polyamide;

PC - Polycarbonate;

PCR - Post-consumer recycled resin;

HDPE - High density polyethylene;

LCA - Life-Cycle Assessment;

LDPE - Low density polyethylene;

LLDPE - Linear low-density polyethylene;

PET - Poly (ethylene terephthalate);

PET - Poly (butylene terephthalate);

PNRS - National Solid Waste Policy;

PICPlast - Plastic Chain Incentive Plan;

POH - Polyoxyethylene;

PP - Polypropylene;

PPG - Polyphenylene;

PS - Polystyrene;

PSU - Polisulfone/Polysulfone;

PTFE - Polytetrafluoroethylene;

PU - Polyurethane;

PVC - Poly (vinyl chloride);

RAIS - Annual List of Social Information;

RAS - Annual Sustainability Report;

RDC - Resolution of the Collegiate Board;

RSU - Urban Solid Waste;

SEMAPLAS - National Seal of Recycled Plastics.

PERFIL



THE PLASTIC TRANSFORMATION
AND RECYCLING INDUSTRIES IN BRAZIL

Prepared by:



Av. Paulista, 2439 - 8º andar | 01311-936 | São Paulo | SP | Brasil | 55 11 3060 9688

www.abiplast.org.br | abiplast@abiplast.org.br

