



June 4<sup>th</sup> - 7<sup>th</sup>, La Rural  
Buenos Aires, Argentina  
[www.argenplas.com.ar](http://www.argenplas.com.ar)

**More than 12 thousand visitors of the most outstanding professional profile are waiting for the largest business meeting of and for the plastics industry in Argentina and Latin America.**

Argenplás 2024, International Plastic Exhibition, which takes place every 2 years in Buenos Aires, Argentina, continues to advance rapidly in the organization under the motto "Latest innovations in compliance with the concept of the circular economy", constitutes:

- ✓ An integrating factor of all international trends on plastic
- ✓ A space with immediate responses to all the emergencies generated by the market:
  - solutions to boost decarbonization,
  - the circular economy,
  - digitization,
  - and artificial intelligence

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XIX International Plastics Exhibition

# argenplás 2024

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## *Plastics in the circular economy*

*(Second part of two)*

*By Engineer Ariel Galbiati for Editorial Emma Fiorentino*

### **Chemical Recycling**

*They are processes by which polymer molecules are broken and create basic raw materials that can be used to produce new plastics.*

*This method consists of the degradation of plastic using heat or other methods.*

*Some of the chemical recycling methods have the advantage that it is not necessary to separate the different types of plastics because they allow mixed plastic waste to be processed, thus reducing collection and classification costs and resulting in high quality final products*

### **The main current processes are:**

*Pyrolysis consists of the breakdown of molecules by heating in a vacuum. This process generates hydrocarbons that can be processed in refineries.*

*Hydrogenation, here plastics are treated with hydrogen and heat, the polymer chains are broken and converted into a synthetic fluid that can be used in refineries and chemical plants.*

*Gasification, plastics are heated with air or oxygen and synthesis gases are obtained, such as carbon monoxide and hydrogen, which can be used to produce methanol or ammonia or as agents for the production of steel in venting furnaces.*

*Chemolysis, applied to polyesters, polyurethanes, polyacetals and polyamides, requires materials separated by type of resin and consists of the*

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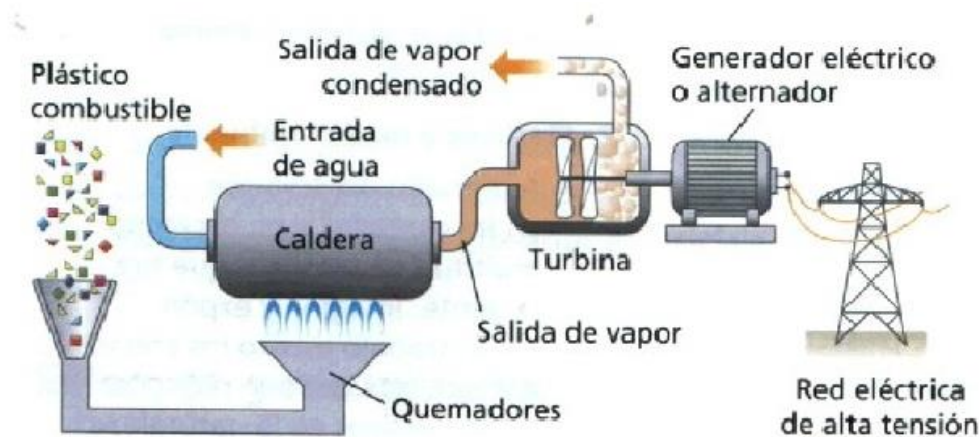
*application of processes such as hydrolysis, glycolysis or alcoholysis to recycle them and transform them back into their monomers.*

*Methanolysis, consists of the application of methanol in PET, the polyester is decomposed into its basic molecules which can be repolymerized to produce virgin resin.*

*These processes have different costs and characteristics, some require plastic waste separated by resin type while others, such as pyrolysis, allow the use of mixed plastic waste.*

## Energy recovery

*Energy recycling consists of using plastic as fuel for energy generation.*



*It is essential to highlight that large amounts of non-renewable natural resources can be saved when recycled materials are used in production processes.*

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Símbolo	Tipo de Plástico	Propiedades	Usos Comunes
 PET	PET PolietilenTereftalato (Polyethylene Terephthalate)	Contacto alimentario, resistencia física, propiedades térmicas, propiedades barreras, ligereza y resistencia química.	Bebidas, refrescos y agua, envases para alimentos (aderezos, mermeladas, jaleas, cremas, farmacéuticos, etc.)
 HDPE	HDPE Polietileno de alta densidad (High Density Polyethylene)	Poco flexible, resistente a químicos, opaco, fácil de pigmentar, fabricar y manejar. Se suaviza a los 75°C	Algunas bolsas para supermercado, bolsas para congelar, envases para leche, helados, jugos, shampoo, químicos y detergentes, cubetas, tapas, etc.
 PVC	PVC Policloruro de vinilo (Plasticised Polyvinyl Chloride PCV-P)	Es duro, resistente, puede ser claro, puede ser utilizado con solventes, se suaviza a los 80°C. Flexible, claro, elástico, puede ser utilizado con solventes.	Envases para plomería, tuberías, "blister packs", envases en general, mangueras, suelas para zapatos, cables, correas para reloj.
 LDPE	LDPE Polietileno de baja densidad (Low density Polyethylene)	Suave, flexible, translucido, se suaviza a los 70°C, se raya fácilmente.	Película para empaque, bolsas para basura, envases para laboratorio.
 PP	PP Polipropileno (Polypropylene)	Difícil pero aún flexible, se suaviza a los 140°C, translucido, soporta solventes, versátil.	Bolsas para frituras, popotes, equipo para jardinería, cajas para alimentos, cintas para empacar, envases para uso veterinario y farmacéutico.
 PS	PS Poliestireno (Polystyrene)	Claro, rígido, opaco, se rompe con facilidad, se suaviza a los 95°C. Afectado por grasas y solventes.	Cajas para discos compactos, cubiertos de plástico, imitaciones de cristal, juguetes, envases cosméticos.
 PS-E	PS-E Poliestireno Expandido (Expanded Polystyrene)	Esponjoso, ligero, absorbe energía, mantiene temperaturas	Tazas para bebida calientes, charolas de comida para llevar, envases de hielo seco, empaques para proteger mercancía frágil
 OTHER	OTHER Otros (SAN, ABS, PC, Nylon )	Incluye de muchas otras resinas y materiales. Sus propiedades dependen de la combinación de los plásticos.	Auto partes, hieleras, electrónicos, piezas para empaques.

*The use of recycled materials can help avoid the overexploitation of resources considered renewable such as forests, avoiding serious impacts on ecosystems such as deforestation, erosion and desertification.*

*Furthermore, with recycled products, energy consumption is reduced and when less fossil fuels are consumed, less carbon dioxide is generated and the greenhouse effect is prevented.*

*The generation of other harmful gases from combustion, such as sulfur and nitrogen oxides, which produce acid rain, is also reduced.*

*For all this and much more, it is "better to recycle".*

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## Notable topics that the exhibition will develop, among others:

- Additive manufacturing, also known as 3D printing.
- The Industrial Revolution 4.0 or fourth industrial revolution, with the transformation of factories into an area also known as the advanced manufacturing industry.
- Innovation arouses a lot of curiosity and will have a main role in the call, given that the most interesting topics will be addressed following global trends.
- Robotics, its advance promotes the accelerating momentum of Smart Factories. It is the unequivocal result of research, development and invention and its contribution is as valuable as the contribution of automation, which in recent decades has made Olympic leaps in its development for unexpected applications and astonishing results.
- Digitalization that, with your active participation, has been integrated to improve processes and competitiveness and your valuable contribution that has optimized all systems.
- The contribution of plastics in the different areas of light construction: construction, nautical, etc.
- The latest technologies to solve the “5Rs”, Reduce, Refuse, Recover, Reuse, Recycle.

Una industria  
comprometida  
con el ambiente,  
la economía circular  
y la innovación.

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## Visitor profile

Argenplás 2024 is a meeting of professionals with a profile selected to provide the exhibitor with a favorable environment to do business:

- Entrepreneurs, executives, engineers, technicians and professionals related to the sector.
- Manufacturers, processors and users of plastic products.
- Raw material transformers.

People from management, technology and production, sales and marketing levels from all industry sectors:

- *Automotive and Transportation*
- *Construction*
- *Electric engineering*
- *Electronics and mechanics*
- *Telecommunications*
- *Home's products*
- *medicinal laboratories,*
- *Veterinary and cosmetic*
- *Medicine and health care, among others.*

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## Items

Argenplás 2024 is the obligatory event that every two years, national and international companies in the following areas find themselves in the appropriate space to face the future of their companies:

- ✓ Machines and Equipment
- ✓ Automation and Quality Control
- ✓ Molds and Tools
- ✓ Raw Materials and Chemical Products
- ✓ Rubber
- ✓ Packaging
- ✓ Plastic Transformers,
- ✓ Finished and Semi-Finished Products
- ✓ Environment and Recycling
- ✓ Reinforced plastics, composites, polyurethane and rotomolding.
- ✓ Entities, Associations, Banks, Services and Technical Magazines

**La Rural, Green Pavilion, June 4 to 7, 2024**

**hours from 2:00 p.m. to 8:30 p.m.**

**Entry of minors under 18 years of age is prohibited**

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Data sheet:

**Event:**

**ARGENPLAS XIX Exposición Internacional de Plásticos 2024**

**Date:** June 4th - 7th, 2024

**Number of visitors:** more than 12.000

**Exhibition Hours:** 2:00 p.m. to 8:30 p.m.

**Accreditation Hours:** 1:45 p.m. to 8:00 p.m.

**Place:** La Rural, Predio Ferial de Buenos Aires

**Pavilion:** green

**Organised by:** CAIP - Cámara Argentina de la Industria Plástica

**Development by:** MBG & EVENTS

**Comercial Development** PWI EVENTS

**Official catalogue, press and diffusion:** Editorial Emma Fiorentino.

Entry of minors under 18 years of age is prohibited, even if they are accompanied by an adult.

**Organised by:** CAIP: Cámara Argentina de la Industria Plástica.

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**Comercial Development:** PWI Events

**E-mails:**

Pablo Wabnik - [Pablo.Wabnik@pwievents.com](mailto:Pablo.Wabnik@pwievents.com)

Sergio Herrera . [sergio.herrera@pwievents.com](mailto:sergio.herrera@pwievents.com)

**Official catalog and press and diffusion:**

Editorial Emma Fiorentino

E-mail: [info@emmafiorentino.com.ar](mailto:info@emmafiorentino.com.ar)

*If your company needs to increase its sales, show itself and go out into the world, Argenplás is your main partner.*

*Edition after edition it is proven that the only place to do business is Argenplás.*

*Regardless of the size of your company, or the role in the production chain, your company cannot be absent from the only event that brings together all the protagonists of the industry.*

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*More than 150 exhibitors from Argentina and 10 countries around the world will meet to show and sell their products to more than 12,000 professionals.*

For more details of what you can experience during Argenplás 2024, the most important event of the year, consult:

[www.argenplas.com](http://www.argenplas.com)

## Who makes ARGENPLAS 2024



### MBG & EVENTS

It strives to create high-profile, highly focused events, where buyers and suppliers from all over the world come together to do business. Every year MBG & Events holds events that attract more than 1,000 exhibiting companies, and more than 150 thousand buyers from the most diverse industries.



### PWI EVENTS

It develops and operates more than 25 annual events without losing focus on each business generating long-term exponential growth and added value for its clients.

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A team of professionals with more than 20 years of international experience in the exhibition sector are the key to producing high-quality events, focused on their clients and with a high return on investment.



Cámara Argentina de la Industria Plástica - CAIP

It is the institutional business entity that brings together the Argentine Plastic Transforming Industry and was founded on December 28, 1944, with clear and concise objectives:

- Gather, relate and link industry entrepreneurs with each other;
- Represent and defend your rights;
- Manage provisions or measures that tend to preserve the interests of the sector;
- Resolve problems that affect associates;
- Establish business-labor links;
- Promote the progress of the Argentine Plastic Industry.

The CAIP actively participates in different levels of leadership of the Argentine Industrial Union (UIA) and is a member, along with its counterparts in the region, of the Latin American Association of the Plastic Industry (ALIPLAST).

**PARTNERS:** With an important component of creativity and with the support of the highest technology, the Argentine Plastic Industry satisfactorily supplies the domestic market and exports finished products that correspond to international quality standards.

Today, the CAIP represents more than 1,300 companies and among the services it provides, the following stand out: Advice, Undergraduate and postgraduate training of manpower, Publications, Specialized Library, Permanent Exhibition of the Plastic Industry and Participation in Fairs and Exhibitions.

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**EDITORIAL EMMA FIORENTINO PUB. TEC. S.R.L.**

Contact: Emma Fiorentino

Tel./Fax: (54-11) 4942-2970 Rotating Lines

Cell phone from Argentina: 15 4440 8756 / 11 6728-8076

From abroad: 00 54 9 11 4440 8756 /// 00 54 9 11 6728-8076 Cellular phone  
from Argentina: 15 4440 8756 /// 15 6728-8076

Cell phone from abroad: 00 54 9 4440 8756 /// 0054 9 11 6728-8076

Skype: Emma Fiorentino

E-mails:

[info@emmafiorentino.com.ar](mailto:info@emmafiorentino.com.ar) / [emmaf@emmafiorentino.com.ar](mailto:emmaf@emmafiorentino.com.ar)

**[www.argenplas.com.ar](http://www.argenplas.com.ar)**

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