

INJECTION &  
EXTRUSION  
MOULDING





60 years of  
Know-how



80% export of  
our solutions



2,000  
customers



Production  
capacity of  
110,000 ton/year



Exports to  
more than  
70 countries



22 production  
lines

## CREATING SOLUTIONS, SHARING EXPERTISE

Within Injection & Extrusion Moulding Business Unit, Cabopol strategy is to provide a wide range of compounds that are available for many injectors and extruders worldwide. At Cabopol we strive to dig deeper daily on the development of new solutions according to our client needs, under the umbrella of each of our brands below.

LACOFLEX

TPE|TPU|TPO|TPV  
Compounds

POLYAMIS

PA6 & PA6.6  
Compounds

SOFIPRIME

PP & PE  
Compounds

POLYPRIME

PVC  
Compounds

ECO-SOLUTIONS

Biobased & Recycled  
Compounds

## ENDLESS COMBINATIONS



FLEXIBLE



FLEXIBLE  
AT LOW TEMP.



UV  
RESISTANT



SOFT  
TOUCH



WEATHER  
RESISTANT



FREE OF  
PHTHALATES



IMPACT  
RESISTANT



2K  
MOULDING



LOW TEMP.  
RESISTANT



SCRATCH  
RESISTANT



FOOD  
CONTACT



HIGH SPEED  
PROCESS.



LOW ODOUR



FLAME  
RETARDANT



HALOGEN  
FREE



LOW  
HALOGEN



HIGH TEMP.  
RESISTANT



THERMAL  
STABILIZED



OIL  
RESISTANT



COLOUR  
VARIETY



ABRASION  
RESISTANT



RECYCLABLE



MINERAL  
FILLERS



GLASS FIBER  
REINFORCEMENT



MECHANICAL  
PROPERTIES



LOW  
FOGGING

## INJECTION & EXTRUSION MOULDING MARKETS



Automotive



Industry



Consumer goods  
& Personal care



Medical

LACOFLEX brand is the tradename of our Thermoplastic Elastomers compounds. CABOPOL offers a wide range of solutions that are present in our daily lives through a wide variety of applications within Automotive, Industry, Consumer Goods & Personal Care and Medical markets. LACOFLEX range of materials are developed according to each product requirements using our R&D center in straight collaboration with our clients.



MATS



GLASS  
ENCAPSULATION



SEALINGS  
& GASKETS














BED  
SPRINGS



ELASTIC  
BANDS

## STANDARD SOLUTIONS

Code	Base	Market	Processing method	Specific application	Additional Features
BMI22-83 BMI34-70 BMI22M-60 BMI04-65S	TPE	Automotive	Injection	Mats	    
BMA100-65UV	TPE	Automotive	Injection	Glass encapsulation	    
CHS49-55	TPE	Automotive	Extrusion	Wire guides	    
BMI23-60	TPE	Industry	Injection	Cable entry plate	  
BMI23-78	TPE	Industry	Injection	Electrical cap & industrial plugs	  
BML202-50	TPE	Industry	Injection	Washing machine seal	   
CHS100-50	TPE	Industry	Extrusion	Gaskets	  
CHS44-65	TPE	Industry	Extrusion	Gasket & profiles	   
BMFH300-75	TPE	Industry	Injection	Gasket & profiles	    
BMI200-50	TPE	Industry	Injection	O-rings	   
BMR90-60	TPE	Consumer goods & personal care	Injection	Bondable to PP	   
TCR200-35	TPE	Consumer goods & personal care	Injection	Bondable to polar substract	    
CHM02	TPE	Consumer goods & personal care	Extrusion	Elastic laminates	  
BML-77	TPE	Consumer goods & personal care	Injection	Bed springs	   
BMR03-65	TPE	Consumer goods & personal care	Injection	Domestic utilities	    
BMR05-65	TPE	Consumer goods & personal care	Injection	Shaker lids	    



LOW ODOUR



LOW FOGGING



SCRATCH RESISTANT



HIGH SPEED PROCESS.



ABRASION RESISTANT



FLEXIBLE AT LOW TEMP.



UV RESISTANT



RECYCLABLE



WEATHER RESISTANT



FREE OF PHTHALATES



COLOUR VARIETY



HALOGEN FREE



FLEXIBLE



HIGH TEMP. RESISTANT



FOOD CONTACT



2K MOULDING



FLAME RETARDANT



SOFT TOUCH

Sofiprime is the range of solutions designed under the base of filled PP and PE compounds. Among those solutions we highlight flame retardant grades for injection or extrusion moulding applications. These based polyolefin compounds were created for extrusion of rigid and corrugated tubes as well as for the injection of parts.



INTERIOR TRUNK PANEL



COOLING FAN



CONDUITS & ACCESSORIES



CORRUGATED TUBES



JUNCTION BOX

## STANDARD SOLUTIONS

Code	Base	Market	Processing method	Specific application	Additional Features
PPCO16T-VW1	PP	Automotive	Injection	Interior trunk panel	Impact Resistant, UV Resistant, Colour Variety, Low Temp. Resistant, Scratch Resistant
PPCO17T	PP	Automotive	Injection	Seat pieces	Impact Resistant, UV Resistant, Colour Variety, Scratch Resistant
HZ 1150CON	PP & PE	Automotive	Injection & Extrusion	Wire guides	Flame Retardant, Halogen Free, High Temp. Resistant, Weather Resistant
PP15HGF-02	PP	Automotive	Injection	Under the hood pieces	Glass Fiber Reinforcement, Impact Resistant, High Temp. Resistant
HZ 1250CON	PP & PE	Industry	Injection & Extrusion	Conduits and accessories	Flame Retardant, Halogen Free, High Temp. Resistant, Weather Resistant, Colour Variety
PEFR40LH	PE	Industry	Extrusion	Corrugated tubes	Flame Retardant, Halogen Free, High Temp. Resistant, Weather Resistant, Low Halogen
PP30T/7035	PP	Industry	Injection	Junction box	Mineral Fillers, Impact Resistant, Colour Variety
PPO40T	PP	Industry	Injection	Trash bins	Mineral Fillers, Impact Resistant, Colour Variety
PP15CGF-01	PP	Industry	Injection	Electrical moulding details	Glass Fiber Reinforcement, Colour Variety, Mechanical Properties
PP30HGF	PP	Industry	Injection	Irrigation moulding details	Glass Fiber Reinforcement, Colour Variety, Mechanical Properties
PPF30HGF	PP	Industry	Injection	Refrigerator trays	Glass Fiber Reinforcement, Thermal Stabilized
PPF20HGF	PP	Industry	Injection	Outer cases of small appliances	Glass Fiber Reinforcement, Thermal Stabilized
PPI30GF	PP	Industry	Injection	Home appliances	Glass Fiber Reinforcement, Impact Resistant
PP30CGF-02	PP	Industry	Injection	Aesthetical parts	Glass Fiber Reinforcement



IMPACT RESISTANT



UV RESISTANT



COLOUR VARIETY



LOW TEMP. RESISTANT



SCRATCH RESISTANT



FLAME RETARDANT



HALOGEN FREE



HIGH TEMP. RESISTANT



WEATHER RESISTANT



LOW HALOGEN



MINERAL FILLERS



GLASS FIBER REINFORCEMENT



MECHANICAL PROPERTIES



THERMAL STABILIZED

Polyamis compounds are PA6,6 and PA6 polyamide compounds reinforced with glass fibers and/or mineral fillers. Polyamides are within the most important engineering polymers due to its exceptional mechanical properties such as higher strength, rigidity, creep strength, dimensional stability and thermal endurance from -40°C to 180°C and above, making these Polyamis compounds an excellent choice for a wide range of applications.



HOUSINGS & CONNECTORS



ENGINE COVER



HOUSING BOX



KITCHEN ARTICLES



WHEELS

## STANDARD SOLUTIONS

Code	Base	Market	Processing method	Filler/ Reinforcement content %	Specific application	Additional Features
BM15-01	PA6	Automotive	Injection	15%	Back injection of emblems	GF, Impact Resistant
A33T-01	PA66	Automotive	Injection	33%	Housings & connectors	GF, Thermal Stabilized
BZ30-01	PA6	Industry	Injection	30%	Housing box	GF, Flame Retardant
B30-01	PA6	Industry	Injection	30%	Housing box	GF
A30F-01	PA66	Industry	Injection	30%	Technical water heater parts	GF, Food Contact
A20F-01	PA66	Industry	Injection	20%	Kitchenware	GF, Food Contact
B30-01	PA6	Industry	Injection	30%	Clamps, reinforced articles and wheels	GF, Mechanical Properties
B50-01	PA6	Industry	Injection	50%	Shopping cart handle	GF, Mechanical Properties
A15F01	PA66	Consumer goods & personal care	Injection	15%	Wheels	GF, Impact Resistant, Flame Retardant, High Speed Process
AM30-01	PA66	Consumer goods & personal care	Injection	30%	Parts of ski boots	GF, Impact Resistant, High Speed Process
A20-01	PA66	Industry	Injection	20%	Tools casings	GF, Flame Retardant
AZ20-01	PA66	Industry	Injection	20%	Electrical protection	GF, Flame Retardant
BM30-01	PA6	Automotive	Injection	30%	Pedal box	GF, Impact Resistant
AZ15T-01	PA66	Industry	Injection	15%	Oven components	GF, Thermal Stabilized



GLASS FIBER REINFORCEMENT



IMPACT RESISTANT



THERMAL STABILIZED



FLAME RETARDANT



FOOD CONTACT



MECHANICAL PROPERTIES



COLOUR VARIETY



FREE OF PHTHALATES



HIGH SPEED PROCESS

Polyprime are PVC compounds free of DEHP and BPA, for various applications. PVC is used in combination with various additives such as plasticizers, lubricants, stabilizers, etc. These additives make it possible to use PVC and make it versatile for many applications. They give it elasticity, stability at high temperatures and reinforce its chemical resistance.



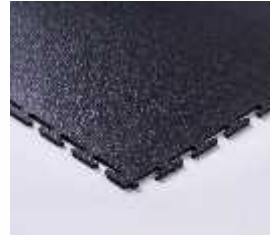
PIPES



FITTINGS



CABLE TRUNKINGS













































FLOOR TILES



MEDICAL TUBES & MASKS

## STANDARDS SOLUTIONS

Code	Base	Market	Processing method	Specific application	Additional Features
PPAA016	PVC	Automotive	Extrusion	Tubes, spiral coverings & wire guides	 
PRE180/H518/00	PVC	Industry	Extrusion	Cable trunkings	 
PPN007860	PVC	Industry	Extrusion	Gaskets	  
PPN083-60	PVC	Industry	Extrusion	Gasket, profiles & pipes	   
PPTG002-80	PVC	Industry	Extrusion	Gas hose	   
PPI011-95	PVC	Industry	Injection	Floor tiles	 
TOP-90A	PVC	Industry	Extrusion	Roof tiles	  
PPI029-74A	PVC	Consumer goods & personal care	Injection	Wheels	  
PPTM001	PVC	Medical	Extrusion	Medical tube	  
PPTM002	PVC	Medical	Extrusion	Medical tube	  
PPTM001-80M1	PVC	Medical	Extrusion	Medical tube (memory)	  
PPTM005	PVC	Medical	Extrusion	Injection moulding	  
PRI040/00	PVC	Industry	Injection	Fittings	
PPB001-95	PVC	Industry	Injection	Toys	  
PRE06G-00	PVC	Industry	Extrusion	Furniture edges	
PPIE001-90	PVC	Industry	Injection	Ladders base	 



FLEXIBLE AT LOW TEMP.



COLOUR VARIETY



WEATHER RESISTANT



LOW TEMP. RESISTANT



FREE OF PHTHALATES



OIL RESISTANT



UV RESISTANT



FOOD CONTACT

The plastics industry has undergone major changes in recent years, mainly due to the growing awareness of consumers who are increasingly looking for sustainable and environmentally friendly solutions. This trend has encouraged the development of innovative materials, leading to a circular conception of the economy, as an alternative to the traditional linear economy.

Cabopol has at its disposal a set of sustainable solutions, which promote the development of the planet and the preservation of its environment. At Cabopol, offering environmentally friendly compounds has been defined as The new standard.



## A MUCH NEEDED SOLUTION

Cabopol, have always been committed to offer sustainable solutions aligned with a circular economy model. To prove it, jump back in time approximately 10 years ago, when Cabopol launched Biomind, its very own brand of Biodegradable and Compostable compounds. At the time, it was the first company in the Iberian Peninsula that were able to provide this type of solutions. Fast-forward to today and the commitment is strong as ever.

Cabopol not only kept offering Biodegradable and compostable compounds, but it added 2 more branches of sustainable solutions. Compounds made with a percentage of recycled material (PIR & PCR) and biobased compounds.



## RECYCLED COMPOUNDS

R-Lacoflex is the Cabopol brand of thermoplastic compounds that contains a percentage of recycled material, the source of which may be PCR (post-consumer recycled) and / or PIR (post-industrial recycled). Our recycled based compounds have the same properties as an ordinary plastic but stands out for using a percentage of recycled resources as raw materials.

R-Lacoflex & R-Polyprime gives a second life to plastic materials whose destination would be landfills or our oceans. Cabopol is actively working with its partners to develop solutions using recycled plastic from our oceans, actively contributing to the reduction of pollution levels.



## CALCULATION OF THE RECYCLED CONTENT

There is still no standard or technology to make a qualitative determination of the amount of recycled material, so we are looking to work with partners that comply with ISO 14021: 2016 and ISO 15343 standards. The product's coefficient or percentage of recycled content is calculated: Mass of PIR & PCR, divided by the Total mass of the product, multiplied by 100. These materials are supplied by certified companies in the treatment of waste. Cabopol is actively working with its partners to develop solutions using recycled plastic from our oceans.



## LACOFLEX | SUSTAINABILITY WITHOUT COMPROMISING PERFORMANCE

Code	Renewable source	Material	Hardness sH A 15''	Density (g/cm <sup>3</sup> )	Tensile strength MPa	Elongation at break %	Tear strength N/mm	Additional Features
R-Lacoflex	10%	TPE	50 - 90	0,92 to 1,2	>4	>400	>20	
R-Lacoflex	25%	TPE	50 - 90	0,92 to 1,2	>4	>400	>20	
R-Lacoflex	30%	TPE	50 - 90	0,92 to 1,2	>4	>400	>20	
R-Lacoflex	50%	TPE	50 - 90	0,92 to 1,2	>4	>400	>20	





## CERTIFIABLE QUALITY

At Cabopol laboratories, compounds are meticulously tested from development to production. To do this, Cabopol relies on the complete dedication of a vast team of technicians, who find solutions that exceed customers' expectations every day. Maintaining high levels of quality.

Adding to this, the raw Recycled material is supplied by Certified organizations, which guarantees complying compounds.

All compounds are RoHS, REACH and SVHC compliant, if requested.



## BIOBASED COMPOUNDS

Bio-Lacoflex is the Cabopol brand of biobased thermoplastic compounds. Our bioplastics have the same properties as an ordinary plastic but stands out for using renewable sources as raw materials, such as: Soy residues, rice starch, corn or sugar cane.

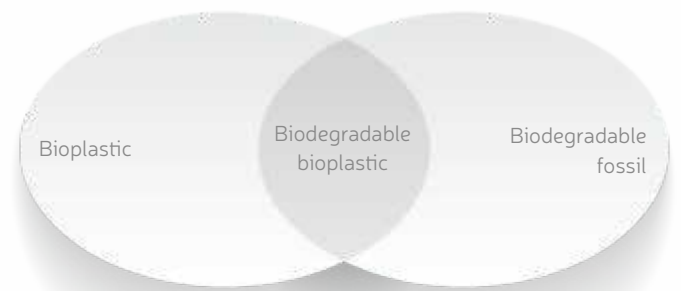
Also, these compounds are 100% recyclable, thus contributing to the sustainability of the planet.



## WHAT IS A BIOPLASTIC?

A biopolymer or bioplastic, is a polymer that has the same properties as ordinary plastic, but stands out for using as a raw material, renewable sources such as soy residues, rice starch, corn and sugar cane. But we must not confuse a bioplastic with biodegradable plastic. These are two different characteristics, it's a mistake to think that a bioplastic is always biodegradable. It is also not correct to think that a biodegradable material must be of organic origin, because there are biodegradable plastics of fossil origin.

Cabopol with its Bio-Lacoflex line has created a material that has in its constitution polymers from renewable sources, thus contributing to the sustainability of the planet.



Cabopol works actively in the development of compounds that incorporate natural origin raw materials and substitute the fossil feedstock by renewable feedstock, in order to increase the percentage of renewable carbon content and decrease the consumption of fossil feedstock. With this solutions, its possible to maintain the characteristics of a standard PVC and TPE based compound, that can be used by itself or mixed with compounds of fossil origin.



## LACOFLEX | SUSTAINABILITY WITHOUT COMPROMISING PERFORMANCE

Code	Renewable source	Material	Hardness sH A 15''	Density (g/cm <sup>3</sup> )	Tensile strength MPa	Elongation at break %	Tear strength N/mm	Additional Features
Bio-Lacoflex	10%	TPE	50 - 90	0,92 to 1,0	>4	>400	>20	
Bio-Lacoflex	18%	TPE	50 - 90	0,92 to 1,0	>4	>400	>20	
Bio-Lacoflex	30%	TPE	70 - 90	0,97	>4	>400	>20	
Bio-Lacoflex	45%	TPE	70 - 90	0,97	>4	>400	>20	



RECYCLABLE

## OUTSTANDING BENEFITS

- Keep the characteristics of a fossil origin compound
- Contributes to reduce the consume of fossil feedstock
- Promotes the use of renewable feedstock
- Contributes to the reduction of the carbon footprint without competing with the food chain
- Individual adjustments of properties
- Fully recyclable
- Customizable features
- Processable on standard production equipment
- Several percentages of renewable raw material



## CUSTOMIZABLE FEATURES



Define the percentage of renewable content



High durability



Completely recyclable



Easy to color



Hardness properties



Mechanical properties



Range of prices



Heat & UV stability

## RENEWABLE RESOURCES

In 2019 the land used to grow the materials necessary for the production of bioplastics amounted 0.79 million hectares, which represents less than 0.02% of the global agricultural area of 4.8 billion hectares. Even considering the market growth expected in the next five years, the land percentage for bioplastics will remain around 0.02 percent. Clearly showing that the materials used for the bioplastics, won't compete in the incoming years with the renewable feedstock for pasture, food and feed.

\*Bioplastics land use is part of the 2% of Material use  
 Source: European Bioplastics (2019), FAO stats (2017), nova-Institute (2019) & Institute for Bioplastics and Biocomposites (2019).

