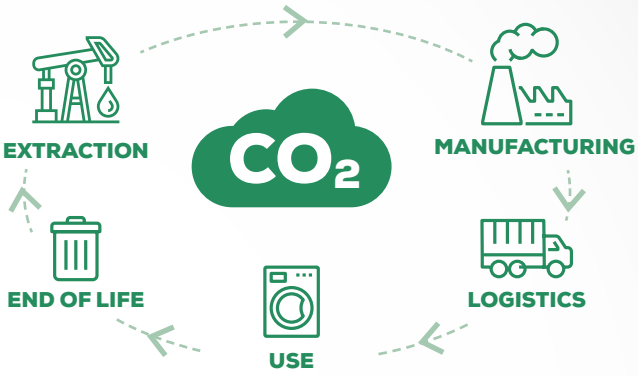
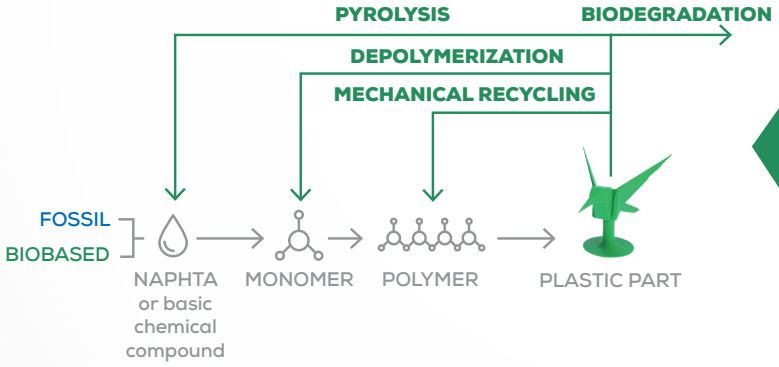
POLYMIX

OUR SUSTAINABLE materials

POLYMIX offers complete technical support for eco-design projects.

The main goal of sustainable materials is to **reduce the product's carbon footprint.** It means reducing the CO_2 emissions associated with all stages of its life cycle.





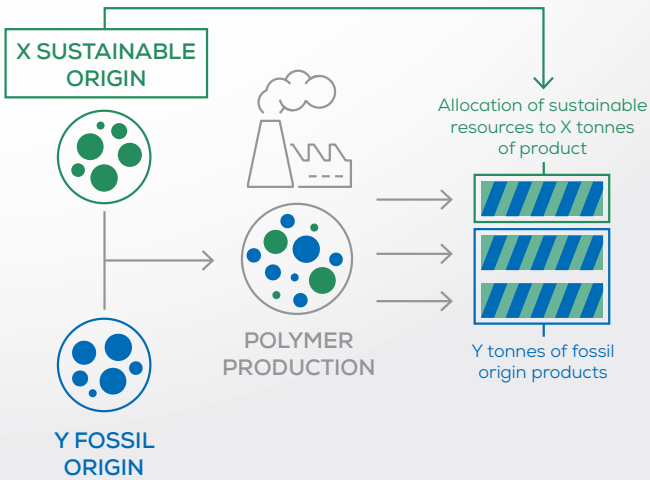
To reduce the CO_2 emissions associated with a plastic part, there are 2 possible options in the choice of material:

- **Recycled polymers** (mechanical recycling, chemical recycling by pyrolysis or depolymerization)
- **Biopolymers** (biobased and/or biodegradable)

ISCC
International Sustainability & Carbon Certification

POLYMIX IS ISCC PLUS CERTIFIED

This international certification demonstrates that, from the collection of raw materials (from biomass or waste and residues) to the transformation process, traceability is guaranteed in compliance with this sustainability standard applicable to all sectors.
« Mass balance » is a calculation method that guarantees that the quantity of « sustainable » resources consumed at the start of the production process is equal to the quantity of products to which these raw materials are allocated.



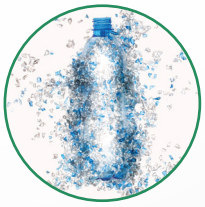
PRODUCER	MATERIAL	ORIGIN*				DURABILITY %	MASS BALANCE	COLORS	FOOD CONTACT	BIODEGRADABLE
		MECHANICAL RECYCLING		CHEMICAL RECYCLING	BIORESOURCES					
		PCR	PIR							
ARKEMA	PA11 RILSAN®				x	Up to 100%		○ ●	x	
	PEBA PEBAX® RNEW				x	Up to 92%		○		
	PA11, PA12, PEBA, PVDF Virtucycle® program	x	x			Up to 95%		○ ●		
SABIC	PC LEXAN®	x	x			On request		●		
	PC LEXAN® RW				x	Up to 60%	x	○		
	PC/ABS CYCOLOY®	x	x			On request		●		
	PC/ABS CYCOLOY® RW				x	Up to 40%	x	○		
SABIC Specialties	PC Copolymer ELCRIN®	x	x		x	On request	x	○		
	PBT ELCRIN® IQ			x		Up to 56%		○	x	
	PEI ULTEM®, SILTEM®				x	Up to 25%	x	○		
REPSOL	PP ISPLEN® RECICLEX	x		x	x	Up to 100%	x	○ ● ●	x	
	HDPE ALCUDIA® RECICLEX	x		x	x	Up to 100%	x	○ ●	x	
	LDPE ALCUDIA® RECICLEX	x		x	x	Up to 100%	x	○ ●	x	
	PP compounds ISPLEN® RECICLEX	x				Up to 30%		● ●		
SULAPAC	Biopolymers + natural fillers SULAPAC®			x	x	Up to 100%	On request	○	x	x
EPAFLEX POLYURETHANES	TPU EPAMET				x	Up to 60%		○	x	
Rodenburg	Starch base SOLANYL®				x	Up to 100%		○	x	x
	PET	x				Up to 100%		○	x	

○ Natural • ● Grey • ● Black

*ORIGIN:

Post-consumer recycled (PCR): collected from recycling stream

Post-industrial recycled (PIR): production waste and scraps



Chemical recycling: physical segregation or mass balance (circular category)

Bioresources 1st or 2nd generation, segregation or mass balance

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