

HYOSUNG



HYOSUNG Performance Textiles
Sustainability Solution fibers

Sustainable Fibers



Regen product portfolio

regen - Hyosung 100% recycled fiber family

Spandex		100% recycled spandex/elastane made with pre-consumer waste
Nylon		100% recycled nylon made with pre-consumer waste
		100% Post-consumer recycled nylon made with recycling waste fish nets from ocean
Polyester		100% recycled polyester made with post-consumer waste
		The first 100% recycled polyester fiber made from marine plastic waste in Korea
		100% recycled polyester made with post-consumer waste regen Jeju is 100% recycled polyester fiber made from post-consumer PET bottle waste from Jeju island in Korea. Jeju Island is a UNESCO World Natural Heritage site.
		100% recycled polyester made with post-consumer waste regen Seoul is 100% recycled polyester fiber made from post-consumer PET bottle waste from Seoul in Korea.

Innovative + Eco-conscious : Functional regen polyester & nylon

 Cooling	 	100% recycled regen askin polyester and MIPAN regen aqua X nylon offers cool touch, quick dry and UV protection
 Cotton-touch		100% recycled regen cotna polyester gives a cotton-like touch, excellent pilling resistance and quick drying.
 High-tenacity		100% recycled regen robic nylon provides excellent tenacity, durability,
 Lightweight		100% recycled regen aerolight polyester provides soft touch, superior absorption and fast-drying
 Quick dry		100% recycled regen aerocool polyester provides excellent absorption, breathability and drying
 Comfortable Stretch		Mechanical stretch polyester with 77% sustainable materials provides comfortable fit.
 Antimicrobial		100% recycled regen aerosilver polyester provides antimicrobial action and superior absorption and fast-drying

Sustainable Fibers

Regen product portfolio

regen
Polyester

ITEM	DENIER	FILA	LUSTER
SDY	30	1	SD
	30	15	
	40	24	
	50	24	SD , DB
	75	36	SD , DB
	75	72	SD
	100	192	
	150	48	SD , BR
	150	72	SD
	150	96	
	250	48	SD , BR
300	10	SD	
DTY	30	36	SD
	50	72	
	75	36	
	75	72	
	100	36	SD , DB
	150	48	
	150	144	SD
	150	72	
300	96	SD , DB	
ITEM	DENIER	FILA	Luster
DTY	50	36	SD
	75	36	
	150	48	
DTY	75	36	SD
	150	48	
	300	96	

**REGEN
JEJU**

**REGEN
SEOUL**

creora[®]
regen
Spandex

creora[®] bio-based
Spandex

MIPAN
regen
Nylon







DENIER	15,20,30,40,55,70,140,280,420,560,840,1120,1680		
DENIER	20, 30, 40,55,70		
ITEM	DENIER	FILA	LUSTER
FDY	10	7	BRT
	15	6	
	40	34	
	210	24	SPK
	30	24	
	20	24	SD
	40	34	
	50	48	
	210	48	
	20	24	FD
	30	34	
	40	10,34	
	50	48	
	70	34,48,68	
210	68		

Sustainable Fibers



HYOSUNG

Regen product portfolio (Functional regen)

Polyester

	Function	ITEM	DENIER	FILA	LUSTER
 <i>Regen aerocool</i>	Quick dry	DTY	50	36	SD
			75	36	
			75	72	
 <i>Regen aerosilver</i>	Anti-microbial	DTY	75	72	SD
			150	144	
 <i>Regen cotna</i>	Natural touch	DTY	80	60	SD
			135	108	
			160	144	
 <i>Regen aerolight</i>	Lightweight	DTY	65	72	SD
			130	144	
 <i>Regen askin</i>	Cooling	SDY	45	24	FD
			75	36	
		DTY	75	36	FD
 <i>Regen xanadu</i>	Comfort stretch	SDY	30	18	BRT (PET) SD (PET) SD (PTT)
			40	18	
			50	36	
			75	36	
			150	48	

Nylon

	Function	ITEM	DENIER	FILA	LUSTER
 <i>Regen robic</i>	High-tenacity	FDY	100	24	BRT
			210	48	
 <i>Regen aqua x</i>	Cooling	FDY	50	24	FD
		DTY	40	24	
			70	68	

For better future, Reuse, Recycled, Regen



GRS certified, 100% recycled spandex made with pre consumer waste

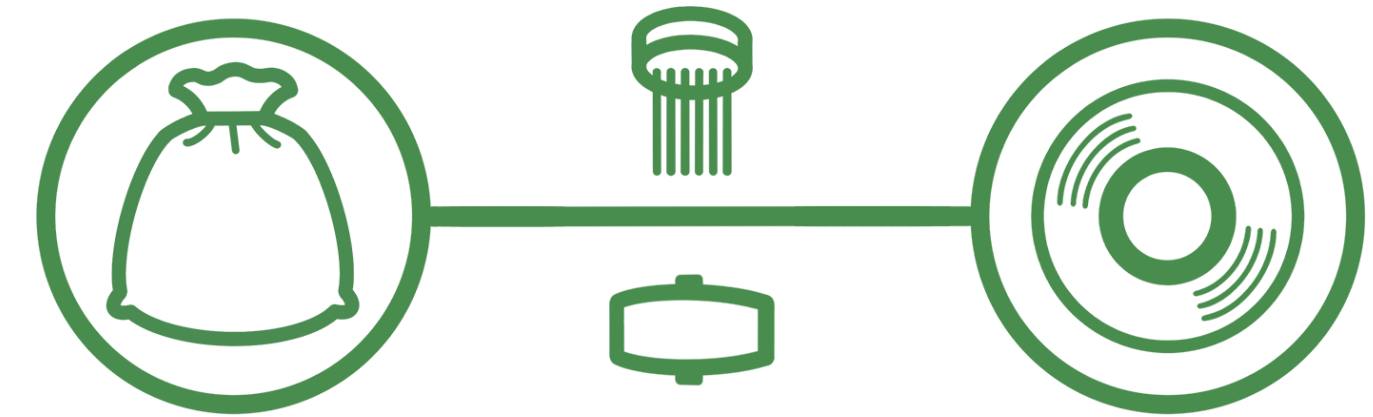
With every ton of 100% reclaimed waste Hyosung uses to produce its GRS certified creora® regen spandex, consumers will be happy to know it reduce approximately 66% of CO2 emission compared to regular spandex

[Offerings(De)]

15,20,30,40,55,70,140,280,420,
560,840,1120,1680



[Process]



Post industrial waste

Fiber waste is collected and treated properly to remove impurities

creora® regen spandex

After being chopped into small size and dissolved, It follows the same process as regular elastane

[Environmental effect of creora® regen]

• Carbon absorption effect per tree



Per 1ton of creora® regen,
It has the carbon absorption effect
of approximately 889pine tree with 30-year-old

• CO2 emission when using anthracite coal



Per 1 ton of creora regen
Carbon reduction equivalent to 3ton usage
Of anthracite coal. Consumers will be happy to
know it reduces approximately 66% of CO2
emissions compared to regular spandex



Sustainable solution fiber



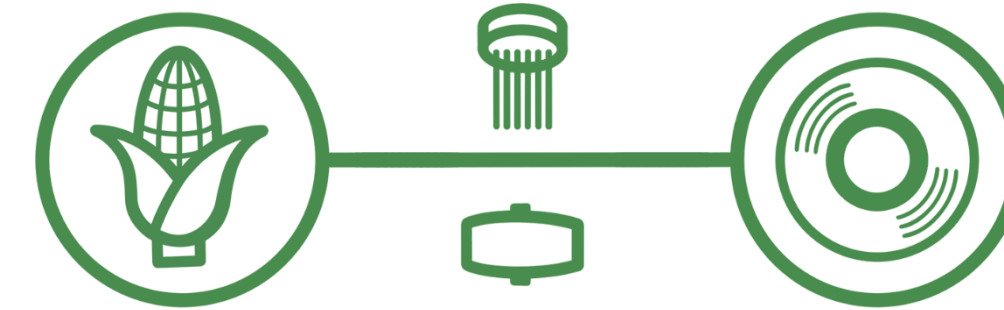
Bio-based spandex |

- ✓ Spandex made with dent corn, a totally renewable resource that is not a human food source.
- ✓ More than 30% of petroleum use savings
- ✓ Excellent stretch and recovery spandex

By replacing petroleum-based raw materials with renewable corn-based feed stock, creora® Bio-based elastane lowers the carbon footprint and reduces reliance on non-renewable resources.

[Offerings(De)]

20, 30, 40,55,70

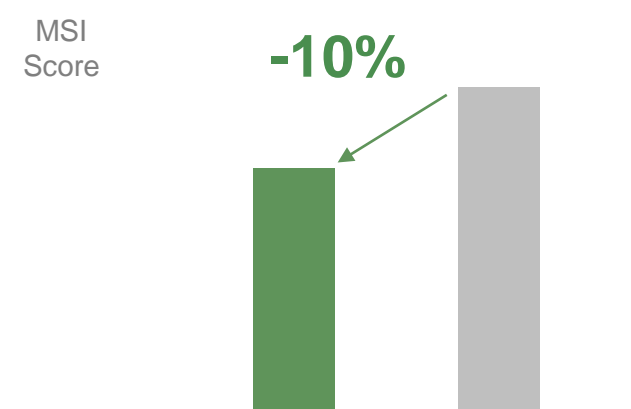


Raw material comes from natural resource
creora® Bio-based spandex from Industrial Dent Corn

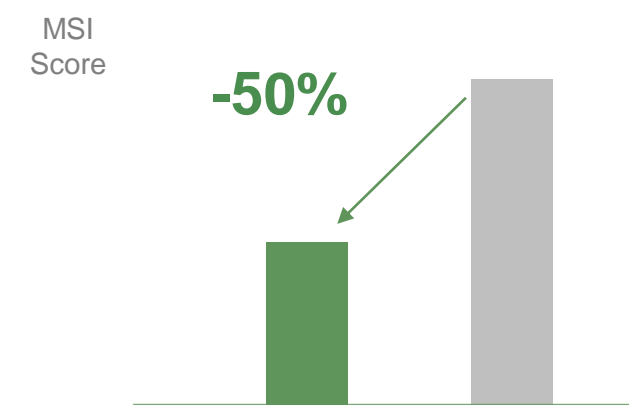
[Better Higg MSI index compared to competitor]

*Higg index : self-assessment standard for environmental and social sustainability

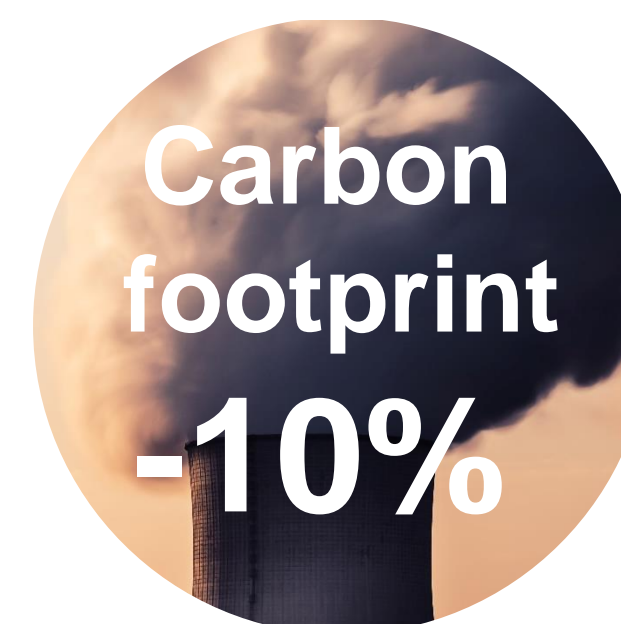
Global warming



Water scarcity



[Environmental effect of creora® bio-based]



Eco-friendly

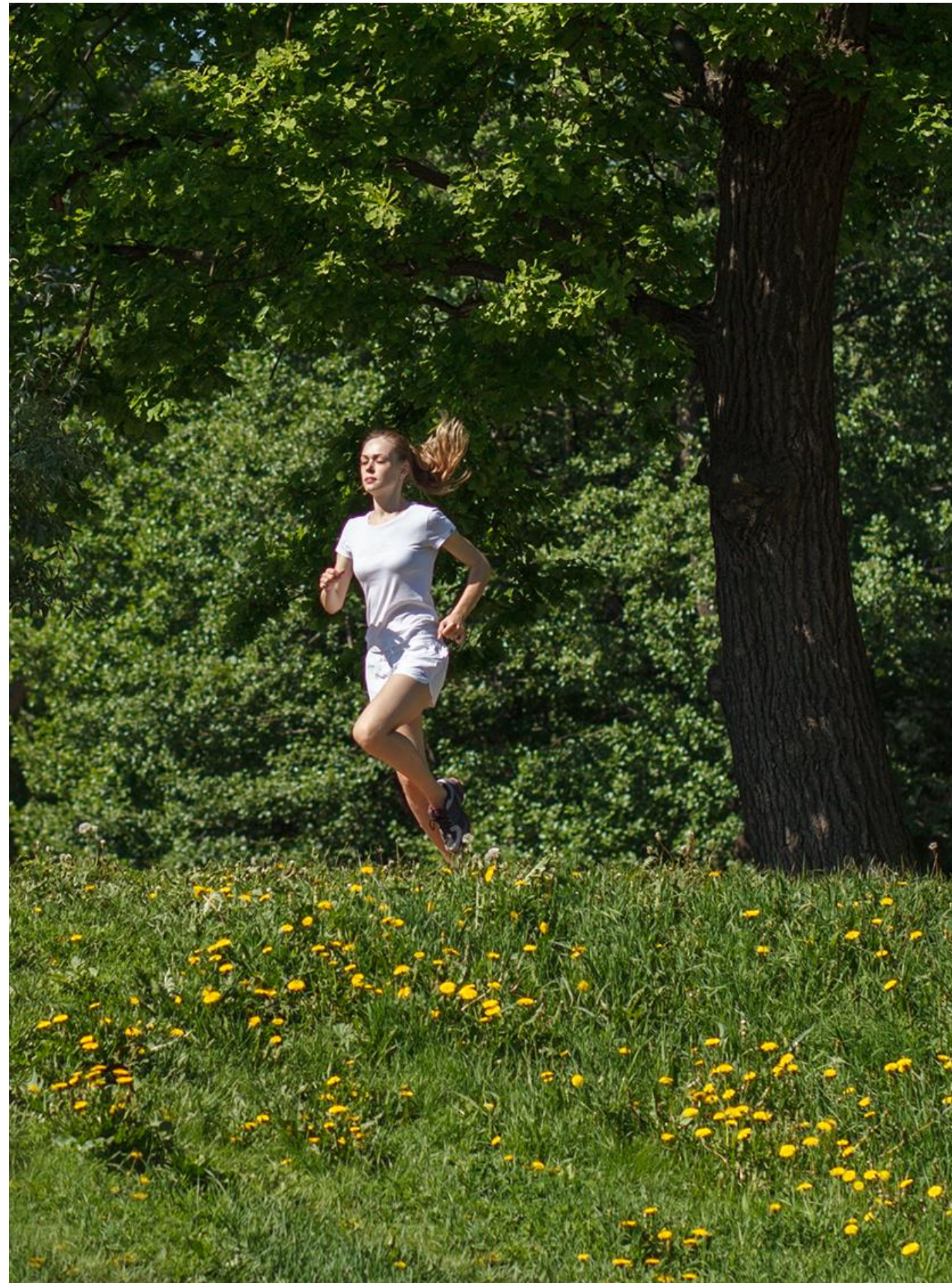


Bio-based spandex

regen

HYOSUNG

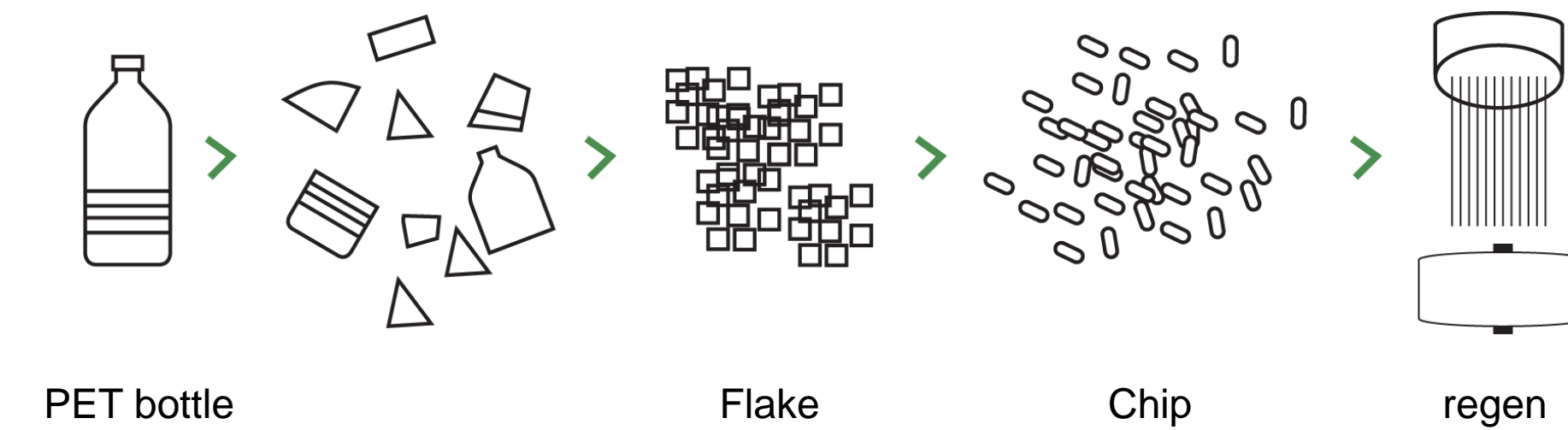
For a better future, Reuse, Recycled, Regen.



GRS certified,
100% post-consumer Recycled polyester

As demand for sustainable materials continues to rise, there has been increased desire for added functionality to these materials. To fill this need, Hyosung has expanded its 100% recycled multi-function fiber offering innovative performance benefits.

Process



Sustainability story

	100% post-consumer recycled polyester
	The first recycled polyester fiber made from marine plastic waste in Korea * OBP Certified
	100% recycled polyester fiber made from post-consumer PET bottle waste from Jeju island in Korea
	100% recycled polyester fiber made from post-consumer PET bottle waste from Seoul in Korea

Innovative + Eco-conscious

regen askin	regen cotna	regen aerolight
regen aerosilver	regen xanadu	regen aerocool

- Recycled polyester
- Eco-friendly

regen ocean

HYOSUNG

For a better future, Reuse, Recycle, Regen

Ocean Protection Initiative



Solution provider:
HYOSUNG



80%

The portion of plastic waste is 80% among the waste occurring from ocean.

regen ocean

- ✓ 100% Recycled polyester made from ocean plastic
 - ✓ OBP(Ocean Bound Plastic) certified by Zero Plastic Ocean
- * regen ocean is waterways/potential/shorline OBP certified polyester*

OBP(Ocean Bound Plastic) certification?

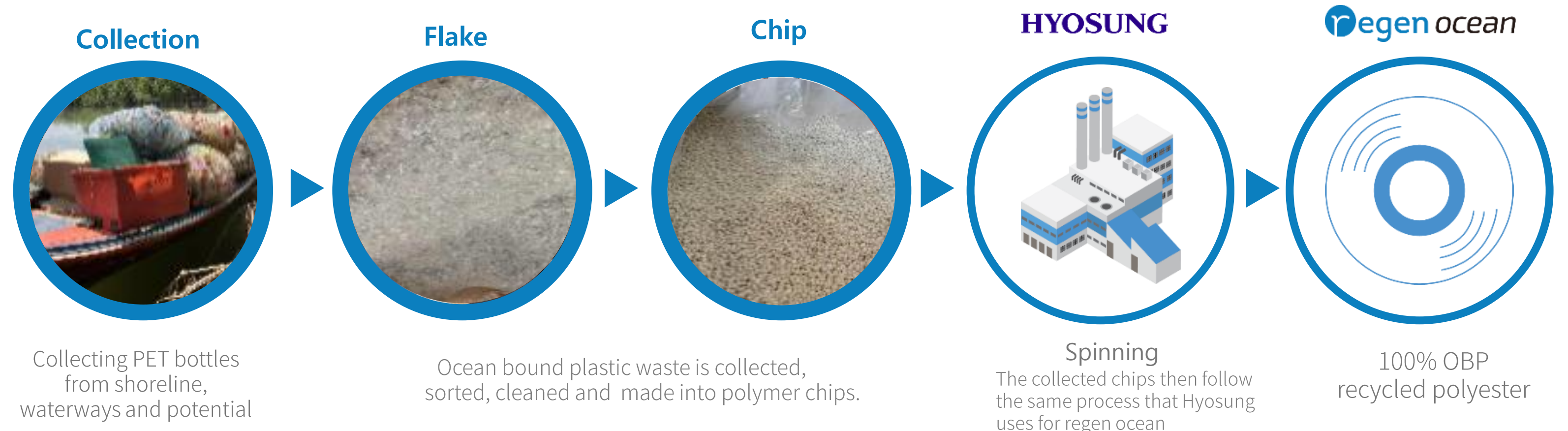
※ OBP certification takes place at Zero Plastic Ocean.

OBP Certification Category

Waterways	Plastic waste within 200m of the river or around.
Potential	Plastic waste 50km away from the ocean ① Impossible to use from landfill plastic waste ② Impossible to use from management fields(ex: recycling center at the beach) plastic waste
Shoreline	Plastic waste within 200m of the shoreline



Process



MIPAN regen

For better future, Reuse, Recycled, Regen.



- Recycled nylon
- Eco-friendly

HYOSUNG

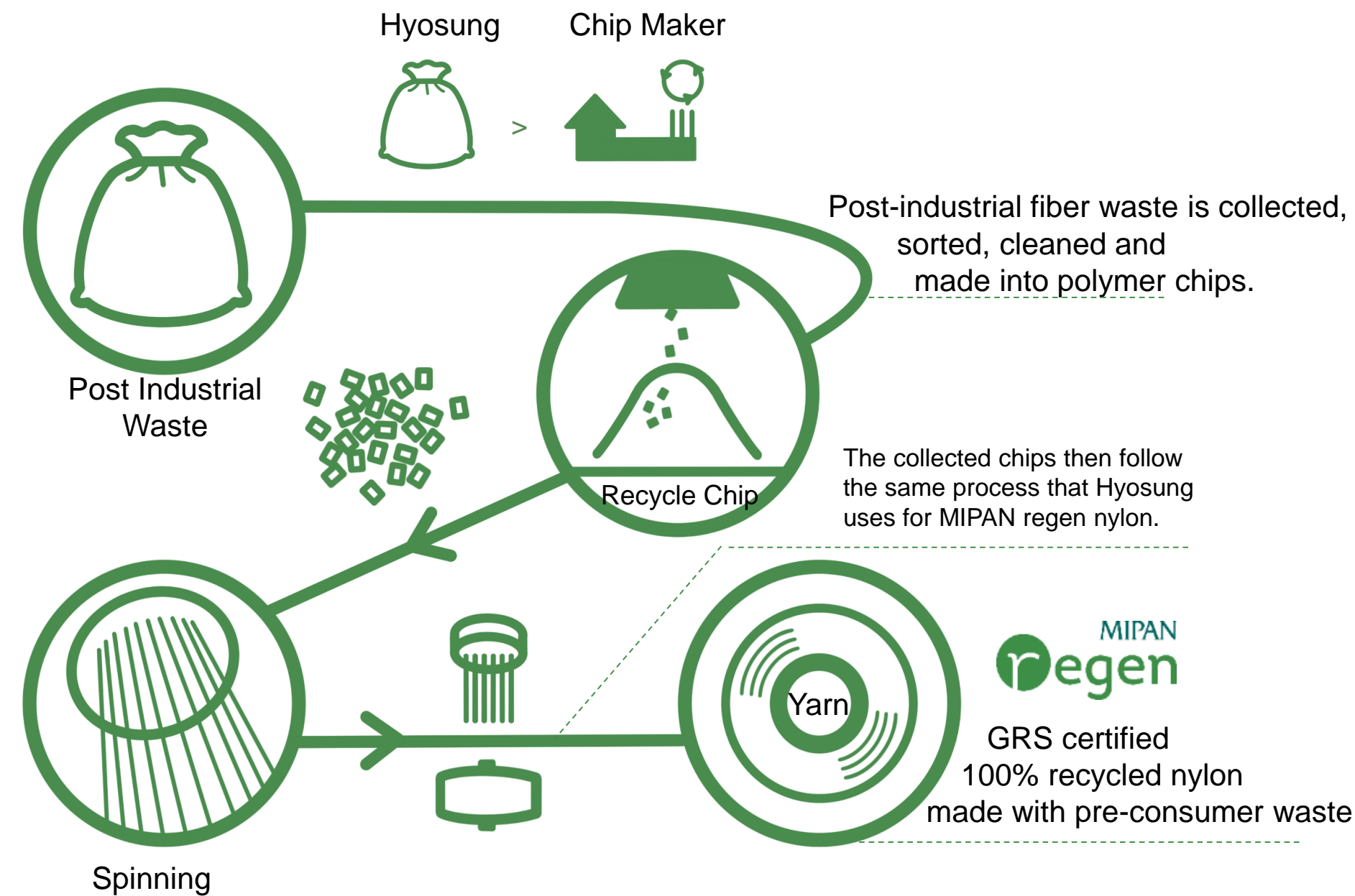


GRS certified,
100% recycled nylon made with
pre-consumer waste



- Innovative + Eco-conscious**
- Cooling **MIPAN regen aqua x**
 - High tenacity **MIPAN regen robic**

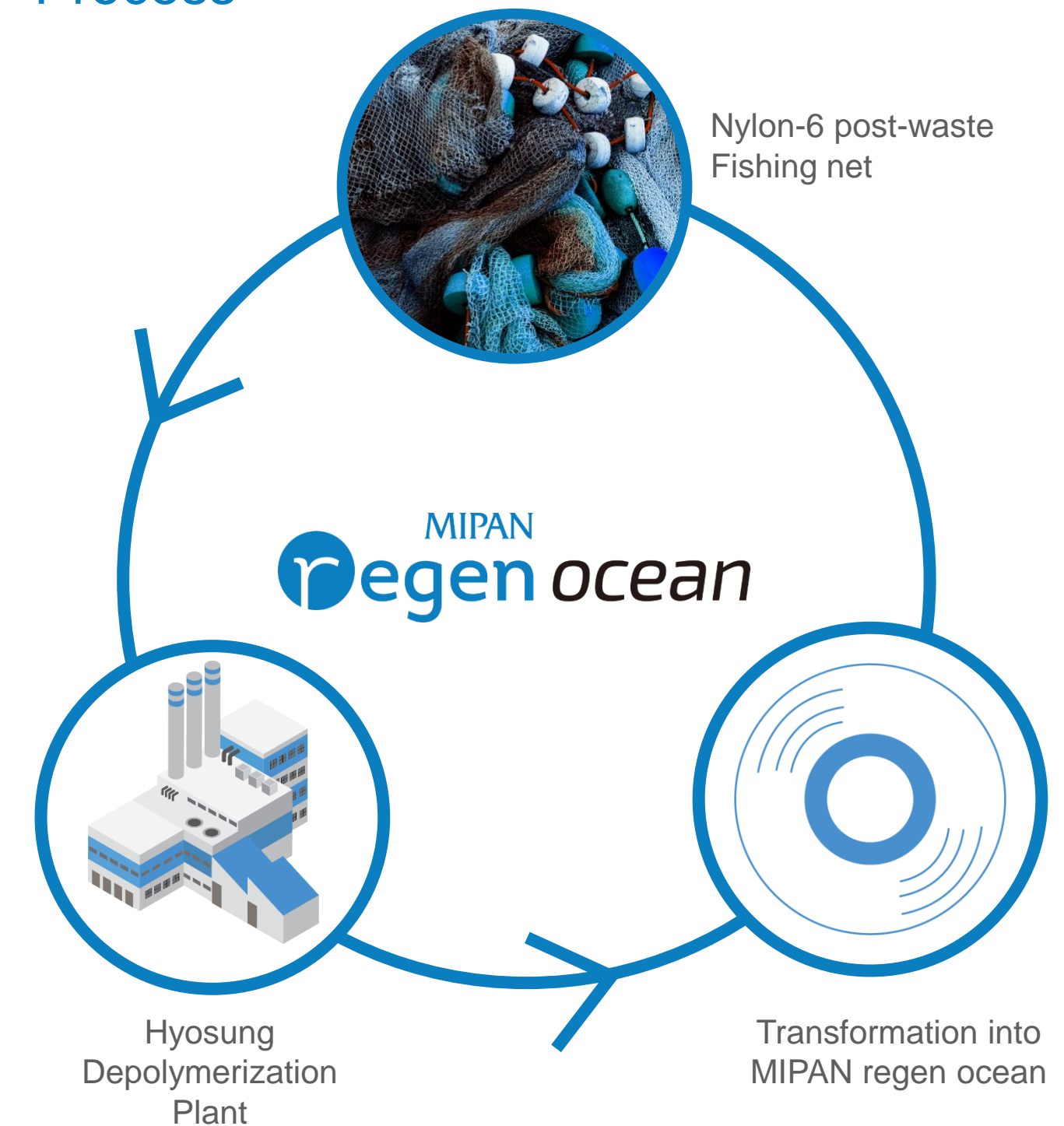
Process



Post-consumer nylon made with recycling
waste fishing nets from ocean

- ✓ GRS Certified
- ✓ Post-consumer recycled nylon
- ✓ Waste fishing nets from Ocean

Process



MIPAN regen ocean

HYOSUNG

For a better future, Reuse, Recycle, Regen



MIPAN
regen ocean



MIPAN regen ocean is GRS certified, 100% recycled nylon made from discarded fishing nets and other reclaimed nylon waste.

- ✓ GRS Certified
- ✓ Post-consumer recycled nylon
- ✓ Discarded fishing nets from Ocean

