



## The ocean cleaner

All **InResST®** products are made from ghost fishing nets recycled from deep-sea fishing activities.

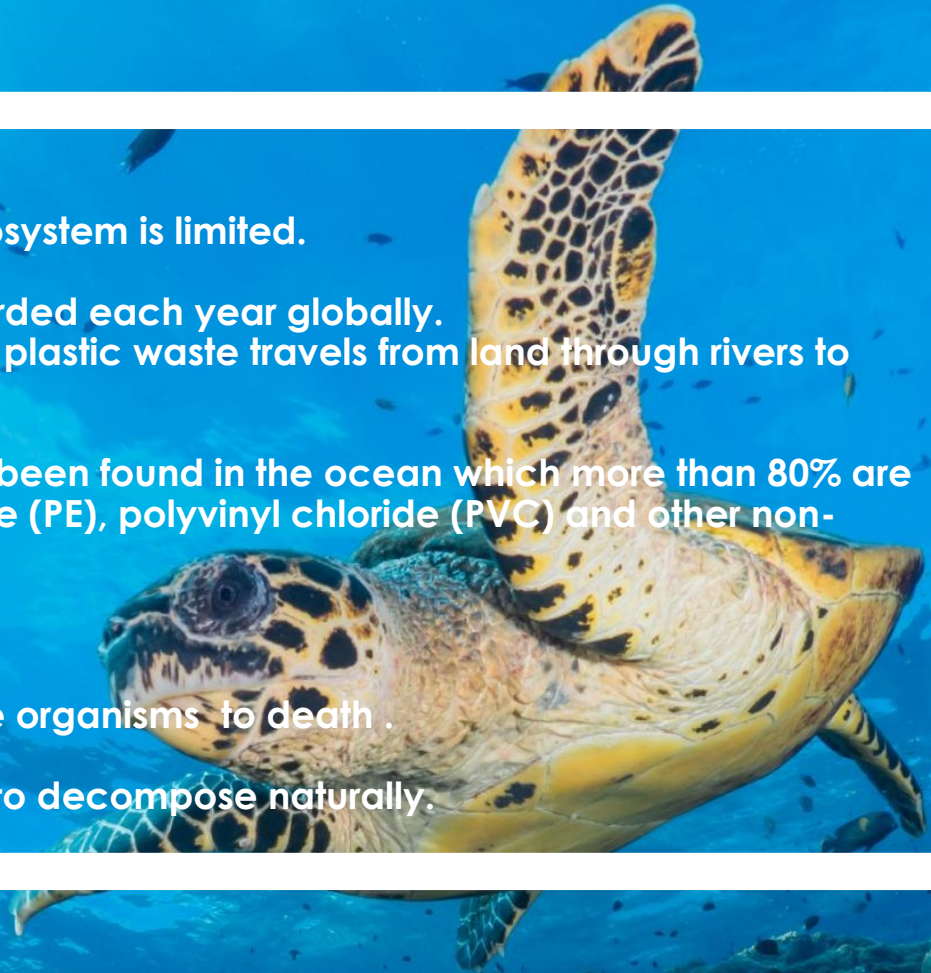
Human activities in the ocean is unlimited,  
yet the self-healing ability of the marine ecosystem is limited.

Over 30 million tons of plastic waste is discarded each year globally.  
Of that number, more than 20 million tons of plastic waste travels from land through rivers to  
end up in the ocean.

At present, almost all types of plastics have been found in the ocean which more than 80% are  
nylon (PA), polypropylene (PP), polyethylene (PE), polyvinyl chloride (PVC) and other non-  
degradable resin materials.

Ghost fishing nets are huge plastic polluters.  
They also catch sea turtles and other marine organisms to death .

On average, ghost nets take 600-800 years to decompose naturally.





# About Us

**InResST®** is a low-carbon, environmentally friendly company that focuses on the feasibility research, development, production and promotion of ocean plastics used in textiles.

**InResST®** recycled nylon staple fiber products are using derived from ghost fishing nets, generated by deep-sea fishery activities.

Then produced by a Low-carbon factory.

Its performance is very similar to virgin nylon and can be directly applied to all types of yarns and fabrics.

We hope to cooperate with environmentally-conscious brands and manufacturers to develop, innovate, and work together to protect the environment as well as the ocean.

## InResST® goal is :



- To raise public awareness of Marine ecological pollution from plastic waste in our oceans.
- To recycle raw materials in order to create a circular economy and solve the industrial closed loop.
- To evolve our methods to reduce carbon dioxide emissions, to reduce energy, to save on water used in processing And promote the recycling feasibility.
- To save Marine animals such as turtles, sharks and dolphins and enhance biodiversity until healthy Marine ecosystems are restored.
- To encourage fishery participants to join this circular economy and help local fishermen and women to earn extra income.



# InResST®

Initiative of **N**ets  
**RE**cycled to  
Save **S**ea **T**urtle



**InResST®** aim to collect detrimental post consume fishing nets from deep sea to bring back to the land in order to reduce pollution to Marine life to save our so essential oceans.



**InResST®** is engaging in value enhancement of recycled marine plastics. We have moved the application market of Marine plastic and nylon fishing nets thread from the traditional industry to the textile industry to improving its added value .

**InResST®** is the only company in China that have passed the GRS certification and applied the slicing by 100% recycled post-consume nylon fishing nets to the textile industry.

**InResST®** is the only company in China mainland who proceed to mechanically extraction process rather than chemical to recycle nylon to reduce the secondary impact of chemical extraction process on the environment.



## How InResST® save the natural resources ?

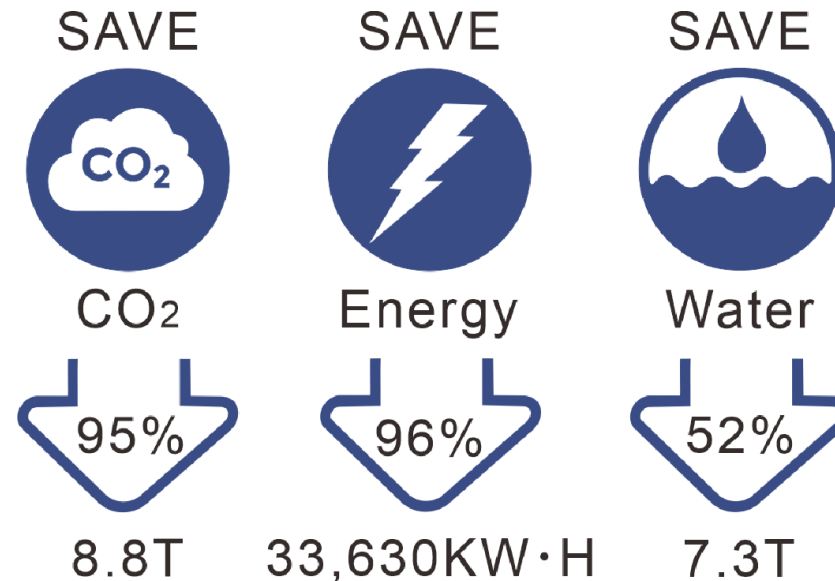


The virgin nylon is extract from petroleum by a chemical method .

During the extract processing need high energy & water support for finish and also bring CO<sub>2</sub>

**InResST®** recycled nylon is a renewable and sustainable material to achieve low-carbon, energy saving and environmental protection.

**For every 1 ton of InResST®raw material production ,we are able to:**



- The assertion results are verified by LCA Report compare InResST recycled nylon with virgin nylon

01

InResST nylon

02

InResST nylon  
「Biodegradable」

By CiCLO® technology





InResST nylon



## 1 Ghost Fishing

Recycling of ghost fishing nets is just the new beginning of all the products of InResST.

While the fishing nets enter the end of their life cycles, we encourage fishery participants to bring back the used nylon nets as much as possible by purchasing them on the market. We then give these ghost fishing nets a new life cycle.



## 2 Making Chips

Making chips by mechanical method.

After the ghost fishing nets are brought into the factory, they are made into sparkling clean Chips (PA6) through the modern and efficient assembly line.

### **Tips: What's the difference between Chemical extraction and mechanical extraction ?**

The Chemical extraction uses chemical auxiliaries to dissolve the raw material to extract.

There are chemical reactions in the process that require a lots of water and bring CO2.

The used water will to become a new potential of pollution.

**InResST®** recycled nylon use physical extraction which by a basic & simply heat fusion method to return the fishing net to be nylon .

It is Non-toxic, harmless and environmentally friendly.



### 3 Yarn Spinning

Blend nylon fiber, and producing yarn.

We develop yarns mixed with yarn with various composition ratios from the used nylon fiber being blended with organic cotton ,recycled polyester, ecovero, modal ,RWS wool etc.

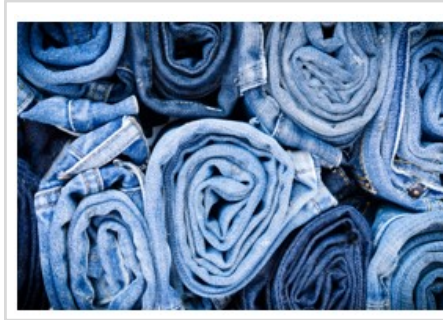
## 4 InResST® Apply to different textile & garments



Artificial leather



Denim



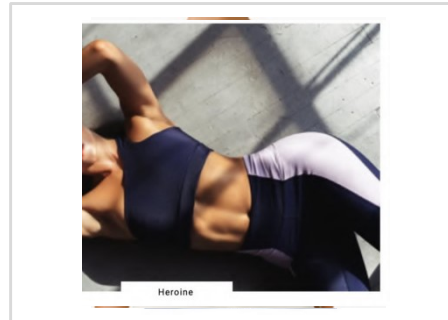
Sweater



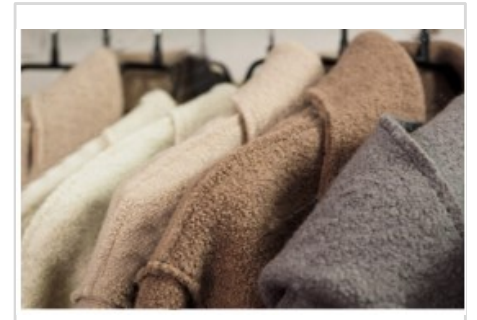
Knit



Yoga clothes



Coat



Yarn is weaved into fabric or knit into garment.

We use these yarns to make T-shirts, Hoodies Sweaters, etc

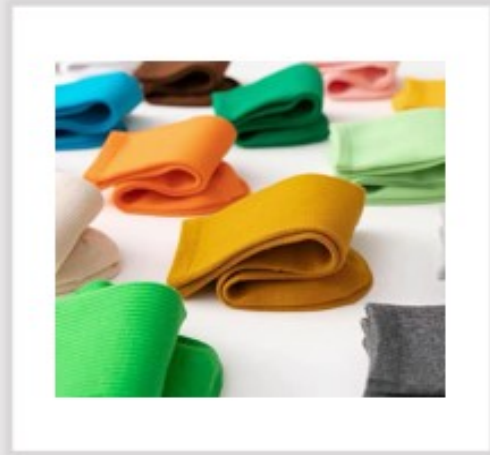
⇒ InResST® Nylon fiber also can be apply to dazzling products



Cap



Socks



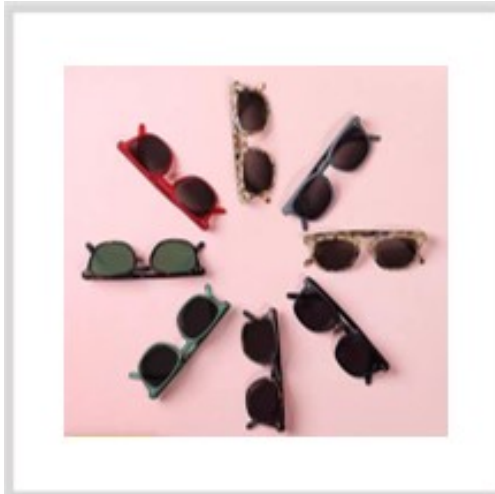
Shoes



Canvas bag



Sunglasses



The protect case of phone



hanger



Suitcase



A photograph of a beach with a sea turtle resting on the sand. The turtle is surrounded by a large pile of colorful plastic waste, including ropes and debris. The ocean waves are visible in the background.

# InResST nylon [Biodegradable]

By CiCLO® technology

- ***CiCLO®*** is the partner of InResST to support biodegradable technology
- ***InResST nylon Biodegradable is another solution .***
- ***CiCLO® technology: Reduces microplastic pollution in oceans.***

# bi·o·de·grad·a·ble

/ˌbɪoʊdɛˈgrɑːdəb(ə)l/

The ability of a substance to be broken down physically and/or chemically by naturally occurring microorganisms, resulting in the production of basic natural elements including carbon dioxide, methane, water, minerals, and new microbial cellular constituents (biomass).

Microbes

+

Moisture

+

Time

Conditions for Biodegradation

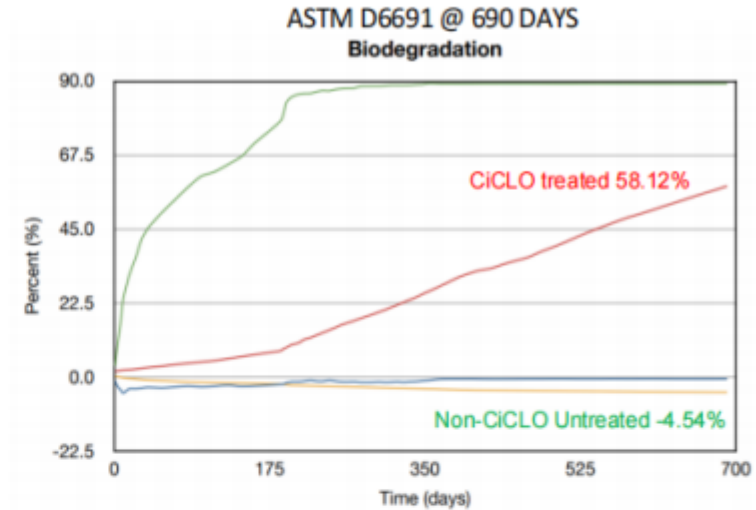
**No activation during garment use or care**



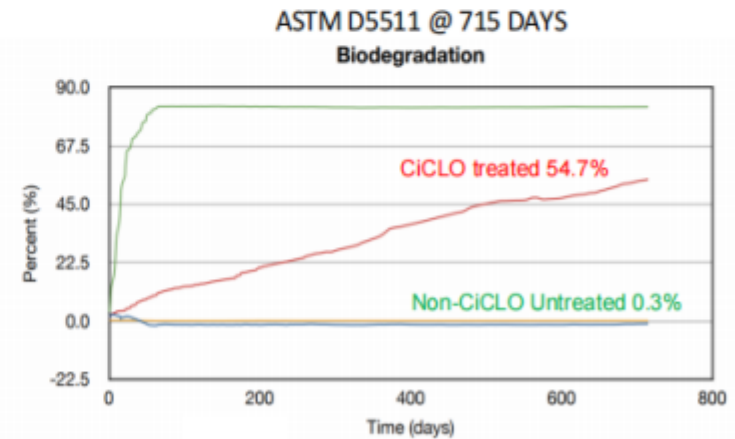
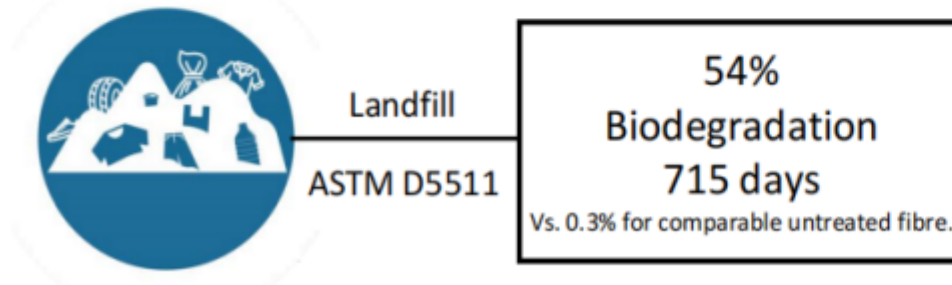
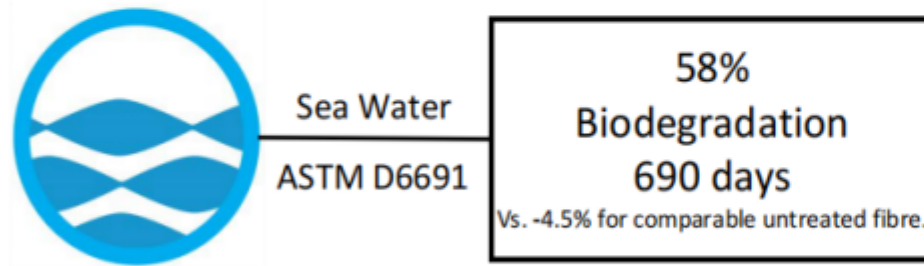
# BIODEGRADATION TEST METHODS - NYLON



- Data shows biodegradation rate and extent of CiCLO vs non-CiCLO Nylon microfibers and fabric in two environments where textiles are prolific pollutants.
- Non-CiCLO Nylon samples do not show significant biodegradation in the tests.
- Tests are a point in time and will continue.



Test conducted on microfiber Nylon samples to mimic the actual scenario in the marine environment



Test conducted on Nylon filament sample to mimic the actual scenario in the landfill environment

Biodegradation studies are conducted and validated by an independent 3rd party laboratory using internationally recognized ASTM test methods. Laboratory studies represent optimal conditions. As with all materials, the actual rate and extent of biodegradation of CiCLO fibers are dependent upon individual conditions in actual environments. 54% biodegradation in 715 days under ASTM D5511 conditions (accelerated landfill environment); 58% biodegradation in 690 days under ASTM D6691 conditions (accelerated marine/ocean environment). The stated rate and extent of degradation do not mean that the product will continue to degrade. IMPORTANT CALIFORNIA NOTICE: California law prohibits the sale of plastic packaging and plastic products that are labeled with the terms "biodegradable," "degradable," or "decomposable," or any form of those terms, or that imply in any way that the item will break down, biodegrade or decompose in a landfill or other environment. These restrictions apply to all sales in or into the State of California, including such sales over the internet.

# EASY TO IMPLEMENT



- ✓ Mechanical and durability characteristics maintained
- ✓ Suitable for existing dyeing & finishing processes
- ✓ Works with virgin and recycled materials
- ✓ Compatible with mechanical & chemical recycling
- ✓ Fits into existing supply chain
- ✓ CiCLO Certificate of Authenticity traceability program
- ✓ ECO PASSPORT by OEKO-TEX® certified

**Free InResST® tags are available for all products**



# ► GRS CERTIFICATE



Control Union Certifications B.V.  
Meeuwenlaan 4-6, 8011 BZ, Zwolle, Netherlands  
+31 38 426 0100  
www.controlunion.com

## SCOPE CERTIFICATE

Scope Certificate Number: CU1137291GRS-2021-00113978

Control Union Certifications declares that

**InResT Co.,Ltd.**  
License Number: 1137291  
Room 202, No.376, Meibei Road, Wangdian Town, Xiuzhou District  
314011 Jiaxing, Zhejiang  
China

has been inspected and assessed in accordance with the  
Global Recycled Standard (GRS)  
- Version 4.0-

and that products of the categories as mentioned below (and further specified in the product appendix) conform with this standard.  
Product categories: Processed materials, Fibres, Tops, Undyed fibers

Processing steps / activities carried out under responsibility of the above mentioned company for the certified products:

Trading

This certificate is valid until:  
2022-10-18

Place and date of issue:



2021-11-04, Zwolle

Name of authorised person:

On behalf of the Managing Director  
Ya Gao/Certifier

Stamp of the issuing body



Logo of the accreditation body



Standard's Logo



This electronically issued document is the valid original version.

Control Union Certifications B.V.  
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Scope Certificate CU1137291GRS-2021-00113978 and License Number 1137291 Page 1 / 3



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+31 38 426 0100  
www.controlunion.com

InResT Co.,Ltd.  
Global Recycled Standard (GRS)

Products Appendix to Certificate no. CU1137291GRS-2021-00113978  
In specific the certificate covers the following products:

Product category	Product details	Material composition	Label grade
Fibres	Staple fibers	100.0% Recycled Post-Consumer Polyamide (Nylon)	Post-Consumer
Fibres	Staple fibers	100.0% Recycled Post-Consumer Polyester	Post-Consumer
Fibres	Staple fibers	100.0% Recycled Pre-Consumer Polyamide (Nylon)	Pre-Consumer
Processed materials	Chips (pellets)	100.0% Recycled Post-Consumer Polyamide (Nylon)	Post-Consumer
Processed materials	Chips (pellets)	100.0% Recycled Post-Consumer Polyethylene	Post-Consumer
Processed materials	Chips (pellets)	100.0% Recycled Post-Consumer Polypropylene	Post-Consumer
Processed materials	Chips (pellets)	100.0% Recycled Pre-Consumer Polyamide (Nylon)	Pre-Consumer
Tops	Tops	100.0% Recycled Post-Consumer Polyamide (Nylon)	Post-Consumer
Undyed fibers	Staple fibers	100.0% Recycled Post-Consumer Polyamide (Nylon)	Post-Consumer

Place and date of issue:



2021-11-04, Zwolle

Name of authorised person:

On behalf of the Managing Director  
Ya Gao/Certifier

Stamp of the issuing body



Logo of the accreditation body



Standard's logo



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InResT Co.,Ltd.  
Global Recycled Standard (GRS)

Facility Appendix to Certificate no. CU1137291GRS-2021-00113978

Under the scope of this certificate the following facilities / subcontractors have been inspected and assessed. The listed processing steps/activities comply with the corresponding criteria of the Global Recycled Standard (GRS) for the certified products:

Name of facility	Address of operation	Processing steps / activities	Type of relation
InResT Co.,Ltd.	Room 202, No.376, Meibei Road, Wangdian Town, Xiuzhou District 314011 Jiaxing, Zhejiang China	Trading	main

**Non-Certified Subcontractor Appendix to Certificate no. CU1137291GRS-2021-00113978** Under the scope of this certificate the following non-certified subcontractors have been inspected and assessed. The listed processing steps/activities conform with the corresponding criteria of the Global Recycled Standard (GRS) for the certified products:

Name of facility	Address of operation	Processing steps / activities
No subcontractors		

**Certified Subcontractor Appendix to Certificate no. CU1137291GRS-2021-00113978** The following independently certified subcontractors are listed under this scope certificate:

License number	Expiry date	Name of facility	Address of operation	Processing steps / activities
No certified subcontractors				

Place and date of issue:



2021-11-04, Zwolle

Name of authorised person:

On behalf of the Managing Director  
Ya Gao/Certifier

Stamp of the issuing body



Logo of the accreditation body



Standard's Logo



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# CERTIFICATE OF CONFORMITY

## JIAXING EK FASHION CO., LTD.

Room 401, Building 72, Zhifu center, Gaozhao street, Xiuzhou District, Jiaxing City, Zhejiang Province, China.

This is to prove the following product sold by the organization above and manufactured by facilities in Annex has been verified by Intertek.

### Green Leaf Certification

**Scope of Verification:**

Product: Recycled Post-Consumer Polyamide (Nylon 6) Chips

This product has been independently verified in accordance with ISO 14040:2006 & ISO 14044:2006 and PAS 2050 standards. The average environmental footprints of the product from cradle to gate are as follows:

- 0.4213 kg CO<sub>2</sub> eq., 4.2849 MJ energy consumed and 0.0066 m<sup>3</sup> water consumed, functional unit of 1 kg Recycled Post-Consumer Polyamide (Nylon 6) Chips, when A=1;
- 3.0838 kg CO<sub>2</sub> eq., 39.8708 MJ energy consumed and 0.0078 m<sup>3</sup> water consumed, functional unit of 1 kg Recycled Post-Consumer Polyamide (Nylon 6) Chips, when A=0.5.

A=1 (The offer is higher than the demand and a 100-0 approach is preferred)

A=0.5 (The offer in recyclable materials and demand in recycled materials is in equilibrium and a 50-50 approach is preferred)

Please refer to Annex and report no. SHAH01310114 for details.

**Number**  
GLF-06-APAC-21-1324

**Initial Issue Date**  
Mar 8, 2021

**Revision Date**  
-

**Expiry Date**  
Mar 7, 2022



Intertek

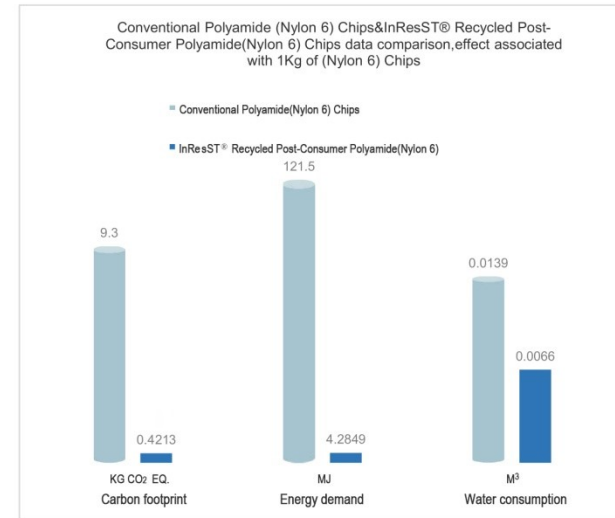


**Calin Moldovean**  
President, Business Assurance

Intertek Testing Services Ltd., Shanghai  
Green Initiatives, Life & Environment Science  
Services  
Block B, Jinling Business Square,  
No. 801 Yishan Road,  
Shanghai, China 200233

Conventional Polyamide (Nylon 6) Chips&InResST® Recycled Post-Consumer Polyamide(Nylon 6) Chips data comparison,effect associated with 1Kg of (Nylon 6) Chips

Phase contribution	Carbon footprint	Energy demand	Water consumption
	KG CO <sub>2</sub> EQ.	MJ	M <sup>3</sup>
Conventional Polyamide (Nylon 6) Chips	9.3	121.5	0.0139
InResST® Recycled Post-Consumer Polyamide(Nylon 6)	0.4213	4.2849	0.0066
Economy	95.50%	96.50%	52.50%



# Establishing diversified cooperation with NGO at home and abroad



①. InResST has become the chairman of All-China Federation of Environmental Protection Federation, and participated in UNDP's old net for new net - high-value recycling demonstration project of ocean nylon fishing net community



## ②. Proposed to establish an exclusive fund for ocean plastics with Alxa SEE



③. Prepared to establish digital ocean NFT OCEAN in Hainan



# Leveraging Digital Economy Technology Development: Building a Digital Ocean

Enabling ocean and associated industries by digital means: **driving the real economy by digital economy**



**NBS**

- 1. Committed to ocean protection
- 2. Credibility of sustainable development
- 3. Mainstreaming of ecological civilization construction



**NFT**

- 1. Digital credibility in the digital economy
- 2. Digital economy mainstreaming



**META**

- 1. Metaverse
- 2. New frontiers of social and economic



**InResST® is actively working in new development**

**In coming for 2022-2023**

- 1. Zero carbon InResST nylon**
- 2. Filament of InResST nylon**
- 3. undye staple fiber.Nature dye InResST nylon**

**InResST**



**THANK YOU**

**InResST®**

**InResST Co.,Ltd**

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