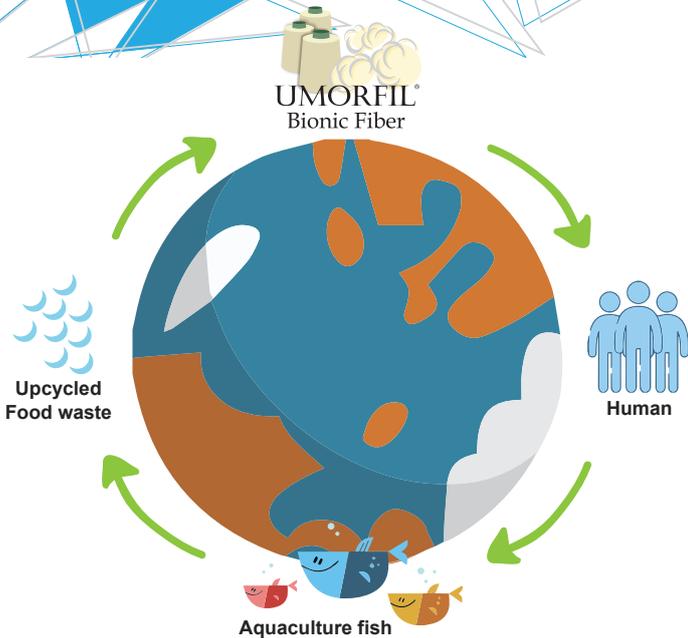


# UMORFIL® N6U®

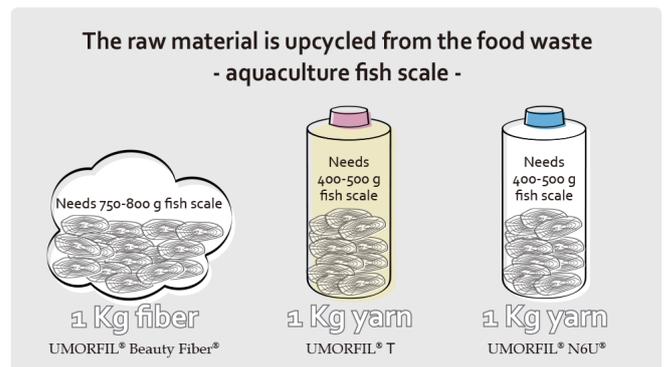
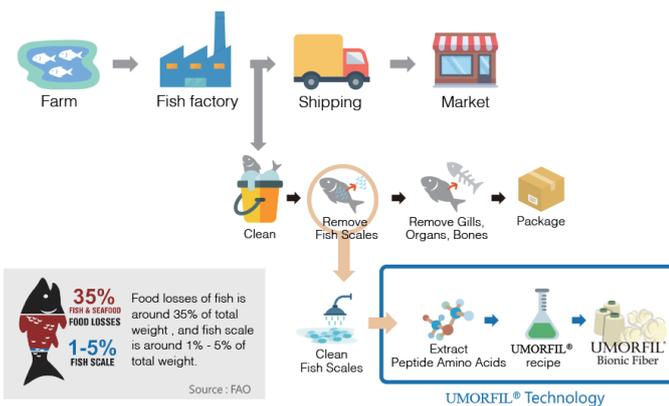
Bionic nylon by UMORFIL® Technology



## How can food waste connect with textile material?

Founder Dr. James Hou is a well-known expert from Taiwanese textile industry. He desires to change the textile industry from linear economy to circular economy and be more eco-friendly for our earth. Based on his years' experience in textile industry and professional biology background, he created UMORFIL® Technology since 2012 that valued up the food waste – aquaculture fish scale into textile ingredient and successfully innovated the skin-friendly UMORFIL® Bionic Fiber series.

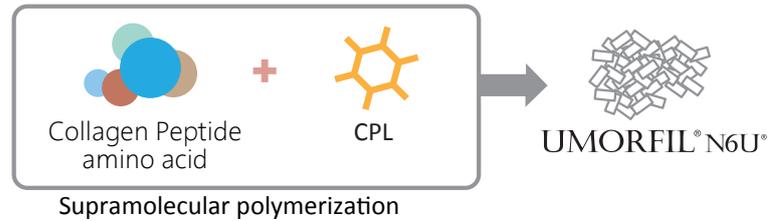
Sparkles at skin friendly features, UMORFIL® Bionic Fiber has passed medical level of skin sensitization/ irritation testing (ISO 10993). Well performance relates with denim, active wear, innerwear, home textile, wadding and shoes products. When we with textile product that made by UMORFIL® Bionic Fiber, we provide our skin a better environment to keep our skin stay in a healthier and better condition, also can prevent environmental pollution without using too much chemicals and detergent. To make sure material's quality and support Taiwanese supply chain, UMORFIL® Bionic Fiber series are all designed and made in Taiwan.



## We can help to reduce the waste on the world ! !

The FAO data shows the fishing volume is increasing annually and had reach 170 million tons until 2018, include 82 million tons from the aquaculture fisheries. We can imagine there's a huge amount of food waste from fish product, if factories bury them in the land, it will cause the soil acidification seriously, or if they burn them it will also cause the air pollution. When we upcycle the fish scales and extracted amino acid to create the UMORFIL® Bionic Fiber series with multiple natural features, we can help to reduce the food waste and pollution issue on earth. "Do less, achieve more." UMORFIL® bionic fiber creates a new level of comfort and a treasure eco textile choice for you."

UMORFIL® N6U® is a new type of nylon which has better hand-feeling with deep dyeable feature, higher moisture regain, natural cooling effect and anti-UV function, provide us a skin friendly and better protection textile material.



\* To supervise material's quality, UMORFIL® N6U® is designed and made in Taiwan.

## Features



### Bionic Nylon

N6U® is the bionic nylon which created by bonding peptide amino acid with regular nylon via supramolecular technology, and the bionic features are permanent.



### Eco-Friendly

The collagen peptide amino acid obtains from upcycled food waste - aquaculture fish scale, it can reduce environmental pollution.



### Prevent Enviromental Pollution

Upcycle the ingredient and level up the materials with nature skin friendly and bionic features, which can prevent the usage of chemicals and detergent.



### Great for Sensitive Skin

N6U® is skin-friendly and had passed the testing of sensitive and irritation skin test. (ISO 10993)



### Collagen peptide polymer

N6U® had passed the Hydroxyproline test to determine collagen in the yarn. Analysis was performed by LC/MS/MS.



### Deep Dyeable

N6U® has more amino group on the surface and became the deep dyeable nylon, which can absorb the dyestuff more efficiency as well as reduce the effluent issue.



### Better Moisture Regain

The moisture regain is higher than the regular nylon.



### UV-Protection

N6U® has natural UV-Protection feature which can protect our skin well.



### Natural cooling effect

N6U® has strong cooling hand feeling.



### HALAL certificate

N6U® had passed HALAL Certificate.



For more information, please check on [www.umorfil.com](http://www.umorfil.com)  
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Umorfil Beauty Fiber



UMORFIL\_BEAUTY\_FIBER

*Feel like second skin™*  
with collagen peptide amino acid