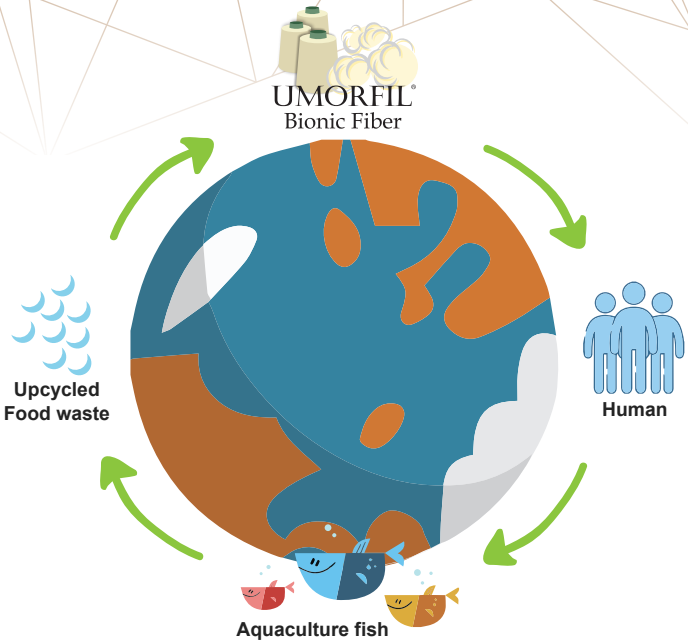
UMORFIL® T

Bionic polyester by UMORFIL® Technology



How can food waste connect with textile material?

Founder Dr. James Hou is a well-known expert from the Taiwanese textile industry. Based on his years' experience in the textile industry and professional biology background, he created UMORFIL® Technology since 2012, valued up the food waste – aquaculture fish scale into textile ingredient and successfully innovated the skin-friendly UMORFIL® Bionic Fiber series.

Upcycle the ingredient - UMORFIL® Technology

"Bring comfort textile to a new level"
UMORFIL® is a new technology for amino acid bionic fiber. Its the name originates from the combination of the Latin "Umor" and French "Fil". Umor means moisture, and fil means yarn. UMORFIL® proprietary technology is a supramolecular tech to integrate peptide amino acid with textile materials like cellulose fiber or filament ingredients, create the bionic functional fiber series which provide a comfortable hand feeling and skin-friendly texture.
To make sure material's quality and support Taiwanese supply chain, UMORFIL® Bionic Fiber series are all designed and made in Taiwan.

1 Kg yarn
UMORFIL® T

We can help to reduce the waste on the world

It needs 400-500 g fish scales to produce 1 Kg UMORFIL® T. When we upcycle the fish scales and extracted amino acid to create the UMORFIL® T with multiple natural features, we can help to reduce the food waste issue and prevent environmental pollution without using too much chemicals and detergent.

UMORFIL® T the manufacture process changes the molecular structure of poly, which make UMORFIL® T with champagne gold color naturally, has bionic feature and soft touch, also with better elongation. The industry can design the fabric with natural champagne gold color, without the dyeing process it can reduce the usage of dyestuff and the effluent issue.

Features

Bionic Polyester
UMORFIL® T comes from a polymerization of collagen peptide and polyester, the bionic features are permanent.

Better Moisture Regain
The moisture rate is 3 times higher than regular poly. (poly 0.4%, PLA 0.5%, UMORFIL® T 1.2%)

Collagen peptide polymer
UMORFIL® T had passed the Hydroxyproline test to determine collagen in the yarn. Analysis was performed by LC/MS/MS.

Great for Sensitive Skin
UMORFIL® T passed the In Vitro skin irritation and skin moisturization testing.

Champagne gold color
UMORFIL® technology integrates amino acid with poly, which makes champagne gold color naturally.

HALAL certificate
UMORFIL® T had passed HALAL Certificate.

Feel like second skin™
with collagen peptide amino acid