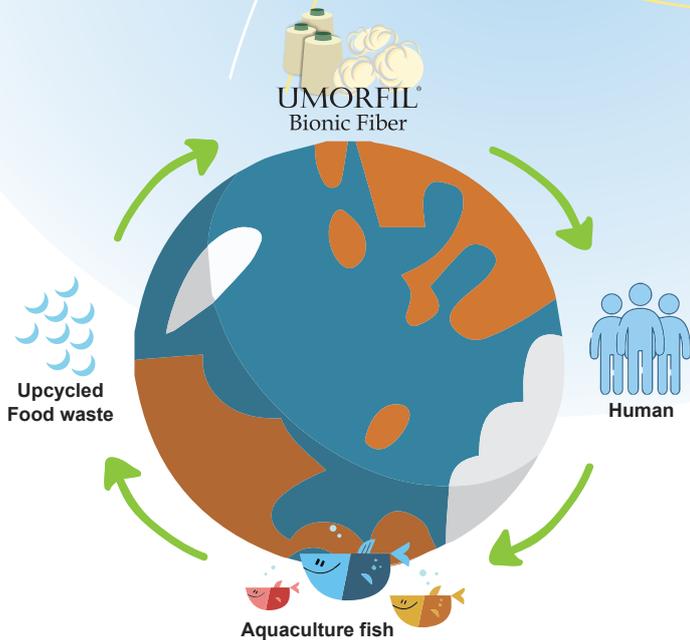


UMORFIL® Beauty Fiber®

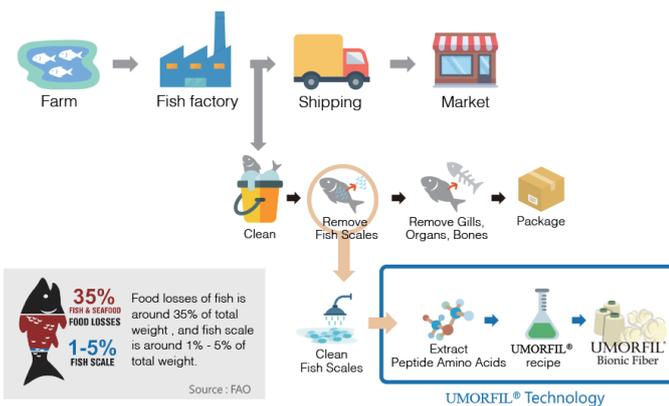
Bionic viscose by UMORFIL® Technology



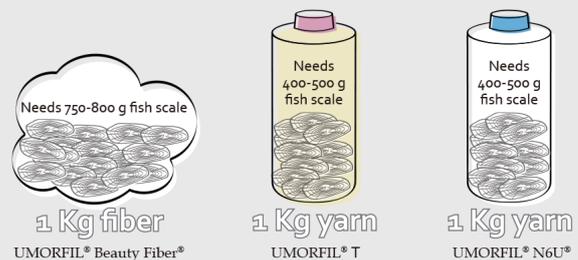
How can food waste connect with textile material?

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.



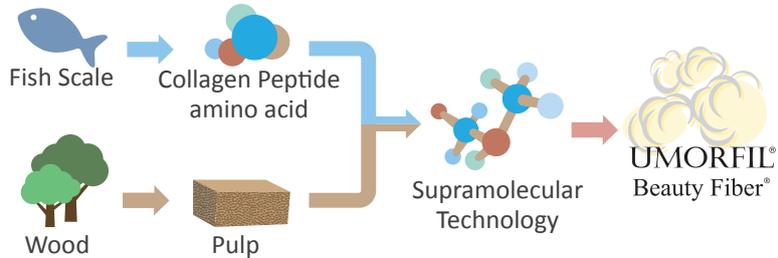
The raw material is upcycled from the food waste - aquaculture fish scale -



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® Beauty Fiber® was created to pursue innovation in textile products that are skin-friendly and good for environment. It can be blended with cotton, linen, lyocell, wool and synthetic fibers to provide different texture for different applications.



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

Features



Bionic Viscose

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



Biodegradable

UMORFIL® Beauty Fiber® can be 100% Biodegradable with DIN CERTCO Certificate.



Eco-Friendly

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



Prevent Environmental 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.



Better moisture regain

The moisture regain of UMORFIL® Beauty Fiber® is 1-3% higher than the regular viscose which can provide fabric a softer hand feeling.



Collagen peptide polymer

UMORFIL® Beauty Fiber® had passed the Hydroxyproline test to determine collagen in the fiber. Analysis was performed by LC/MS/MS.



Deodorizing

UMORFIL® Beauty Fiber® provides nature deodorizing feature, even after washing, the function remains. (ISO 17299 : Ammonia 76% / Acetic acid 99% / Isovaleric acid ≥ 99% / 2-Nonenal > 83%)



Anti-static

Amino acid inside UMORFIL® Beauty Fiber® will capture water from the air which can provide excellent anti-static feature.



HALAL certificate

UMORFIL® Beauty Fiber® had passed HALAL Certificate.



Great for Sensitive Skin

UMORFIL® Beauty Fiber® had passed skin sensitivity and irritation test (ISO 10993).



For more information, please check on www.umorfil.com
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Umorfil Beauty Fiber



umorfiltechnology

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