FUNTIONAL

YARN & FABRIC









Taiwan

One of the prosperous aquaculture in Taiwan is oyster farming, there are around 200,000,000 KG of oyster per year, mostly distributed in the west coast of Taiwan.

Oyster Farming







We're Facing Now.

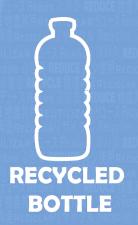


160,000,000 KG of oyster shells will be discarded. These shells are just piling up and cause the awful smell.



Material Innovation

CLE 循環再達RECICLAR リュース Reutiliser 州州岩 REUSE 物面共用REUTILIZAR リテュース Réduire 검영화 REDUCE 被受物 Nire 건영화 REDUCE 物面其用REUTILIZAR リュース Reutiliser 州州岩 REUSE 循環再造RECICLAR リサイクル Recycler 州島舎 RECYCLE 循環再造RECICLAR リカイクル Recycler 川島舎 RECYCLE 循環再造RECICLAR リサイクル Reduire 沿路車 REDUCE 減少使用REDUCE 減少使用REDUCIR リテュース Réduire 沿路車 RECYCLE 循環再造RECICLAR リサイクル Recycler 州北舎 RECYCLE 循環再造RECICLAR リカイクル Recycler 州北舎 RECYCLE 循環再造RECICLAR リュース Réduire 沿路車 RECYCLE 循環再造RECICLAR リュース Réduire 沿路車 RECYCLE 循環再造RECICLAR リュース Réduire 沿路車 RECYCLE 海辺 RECYCLE 海辺 RECYCLE 小田 RECYCLE 海辺 RECYCLE 小田 RECYCLE NI RECYCLE



REUSE RECYCLE SECYCLE



After spending almost 10 years, we're proud and excited that we finally find a way to deal with the mountains of Oyster Shells.

Take fully advantages of oyster shells, get the most out of it.



The NEW Material made of

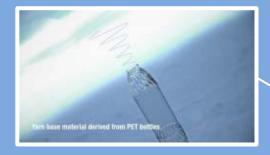
Recycled Bottle &

Oyster Shell

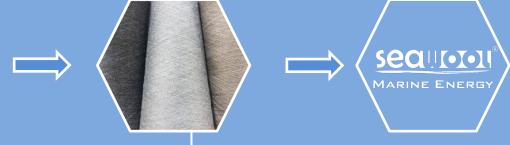
The raw material of **Seawool**® is PET bottles and oyster shell powder, we combined these two things together to create the functional yarn. It has exceptional warmth, and environment friendly components from the ocean and post consumer product as the perfect example of CIRCULAR ECONOMY.







OYSTER SHELL



SEAWOOL YARN

RECYCLED PET BOTTLE



Eco-Friendly
Woolen Touch
Keep Warm
Anti-Static
Q-Dry, Easy Care



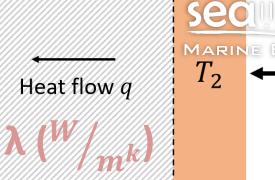
The functional yarn which the structure is 99% similar with wool was entitled "Seawool".

The best advantages of Seawool is focusing on its environmentally-friendly materials. The oyster shell which naturally contained with mineral that made the yarn have additional multi-functions: Anti- Static, Anti- Odor, Moisture Management, Quick dry, High CLO and Machine wash.



Cold environment

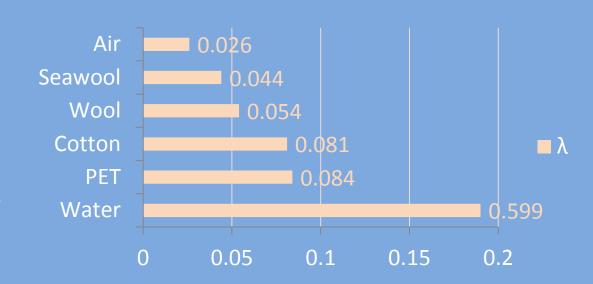
 T_1





Heat can be lost through the process of conduction.

Seawool® has a thermal conductivity – **0.044** that is almost less than half as high as PET – 0.084. It means that Seawool® is better insulators than polyester.

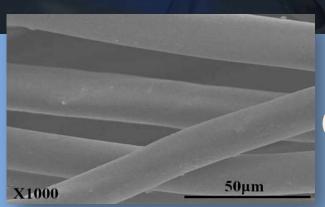




Woolen Touch

Seawool® has a unique surface structure and we can observe that the fibers show its surface scales under SEM.

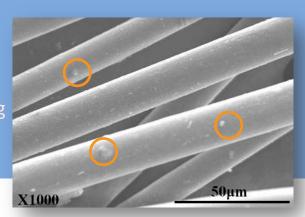
The feel of Seawool® is very different to typical synthetic fibers. It feels like wool due to those scales.



(A) Yarn before dyeing

↑ Fiber SEM Pictures ↓

(B) Yarn after dyeing





Seawool yarn has the major portion Positive Electricity and the human body is with Negative Electricity, so those two electricity will neutralize after wearing this new fabric's apparel and prevent the static happen during the winter time.

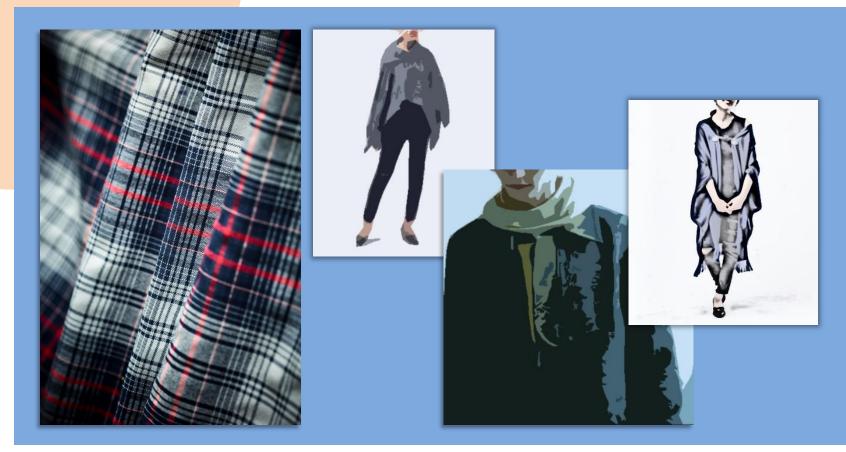
Refractive index: 1.59





The nanolized oyster shell powder on the surface is a microporous structure, which could facilitate the absorption of the odor caused by the body after sweating.

Application Seawool Functional Yarn Seawool Function Seawool Functional Yarn Seawool Function Se







Thank you!

