



Recycled fishing nets

According to research by the Food and Agriculture Organization of the United Nations and the journal «Science», approximately 640,000 to 800,000 tons of fishing nets and fishing gear are abandoned or lost in the ocean every year, of which Nylon 6 fishing nets account for approximately 60% - 70% (i.e. 380,000 to 560,000 tons).

A group of citizen scientists visited Taiwan's coast to document the composition of marine debris. It was found that up to 70% of marine debris was abandoned fishing gear, and in Penghu and Changhua, Yunlin and Chiayi regions, the combined proportion of abandoned aquaculture and fishing gear exceeded 85%.



Reuse, Mechanical Reuse, and Chemical Recycling

- Foreveryarn got certification from GRS and apply for ISCC+ The capacity of foreveryarn is four tons/day now.
- Theoretically speaking, the mechanical recycle under the same chemical structure, to repeat heating the instability of the molecular structure might be cause some risks in quality.
- but foreveryarn is to depolymerize to monomer and repolymerize which theoretically will be very close to virgin materials.
- And due to the consistency of the lot number, the loss of each section of the process is low, which will be more helpful for reducing carbon emissions.
- The yarn made from foreveryarn has been proof in weaving and knitting.



Comparison of Production Data Between Mechanical Method, Chemical Method and Virgin Chip

Method	Mechanical	Virgin Chip	Chemical
Lot NO.	NR36 - 702	N136 - 110	NC36 - 100
H2O(ppm)	345	472	256
RV	2.482	2.454	2.484
NH2(meq/kg)	40.7	43.79	39.7
Ash(%)	1.6	1.6	1.6
L *	92.4	93.71	93.31
A *	-1.00	-0.69	-0.82
B *	2.18	1.15	1.35