

Bio4HUMAN – Identifying bio-based solutions for waste management applicable to the humanitarian sector

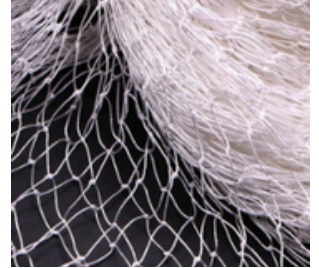
Bio-Based Solution Info Sheet

MONOFILAMENT FISHING/MOSQUITO NETS



Baseline alternative

Conventional monofilament fishing nets made from fossil-based plastics (e.g. nylon, polypropylene) / conventional mosquito nets.



General description

Biobased and biodegradable bioplastic formulations for monofilament fishing nets. These nets are engineered to perform like conventional plastic nets but degrade naturally in marine or soil environments, reducing their long-term environmental impact.



Lifespan

Comparable to the conventional alternative (1-2 years).



Environmental aspects - added value

- End of life: Under industrial composting conditions, this packaging tape biodegrades within a few months.
- The correct disposal for the biodegradable nets is to reuse them as much as possible, recycle them if possible, and discard in an industrial compost where the material will be biologically recycled.
- Made of bio-based polymers (PLA – maize), reducing reliance on fossil resources.
- Marine-degradable, helping to mitigate ghost net and plastic waste problems. The nets will not dissolve in fresh water.
- Mosquito nets: impregnation with insect repellents should not affect biodegradability.



SCAN FOR BIO-BASED SOLUTIONS PORTFOLIO OF ALL SOLUTIONS

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