

Ri-Thai International Inc. Monofilament Yarn | The Circular Economy of Fabrics

Though the Industrial Revolution accelerated the global economy 200 years ago, today we're at a tipping point in terms of sustainability – what we must all face together. The 2030 Agenda for Sustainable Development, set out by the United Nations in 2015, is composed of 17 Sustainable Development Goals (SDGs) that tackle issues that impact the economy, society, and the environment. The textile industry is currently the second most polluting industry in the world, responsible for 20% of wastewater globally. Furthermore, 80% of textiles that are thrown away either end up in landfills or are incinerated.

As a key player in the textile industry and being part of a sustainable global community, Ri-Thai began developing sustainable alternatives such as MonoGreen™ in 2011. In the past two years, we focused on closed-loop textile solutions, transitioning from a linear economy (take, produce, use, discard) to a circular economy (reduce, reuse, recycle).

From sourcing raw materials, designing, manufacturing, and providing various applications, to recycling for a more sustainable future – we hope to leverage our experience and expertise in monofilament yarn technology to lead the industry towards a circular business model.



- Raw Materials: We use raw materials that are recycled, bio-based, or bio-degradable.
- Recycling: We started to invest in the development of textile-to-textile recycling, mono-material easy-recycling, and bi-component self-crimping mono-material monofilament yarn solutions.
- Reducing the Impact of Industrial Processes on the Environment: Our solution dyed monofilament and bi-component monofilament yarns reduce industrial consumption of energy, toxic chemicals, and water.
- Reducing the Impact of Textiles on the Environment: Switching to monofilament yarns will minimize sheddings of microfibers, joined by the efforts in improving the quality and in extending the life of monofilament yarns and textiles.

We hope the industry takes heed to this tipping point to reduce its negative impact on the environment by extending the product life cycle and turning waste textiles into raw materials that can be reused to truly close the loop. This is an endeavor we must all tackle together to build a sustainable and circular world.

To learn more, please visit our website <http://rithai.com>, or reach out for collaborations

