

## Eco-Intelligent<sup>®</sup> Polyester (EIP)

### THE TOXIN-FREE ECO INTELLIGENCE<sup>®</sup> PLATFORM

The first product developed from our Eco Intelligence<sup>®</sup> platform, Eco Intelligent<sup>®</sup> Polyester is a synthetic textile designed for sustainability from start to finish. Eco Intelligent<sup>®</sup> Polyester is called “The First Technical Nutrient textile.” A “technical nutrient” is a material that remains in a closed-loop system of manufacture, reuse, and recovery, maintaining its value through many product life cycles.

This concept was developed with McDonough Braungart Design Chemistry (MBDC) and is a textile designed to be used, recovered and remanufactured safely and effectively throughout multiple product lifecycles—the first textile designed as a technical nutrient.

### **Why is this important?**

This is the first polyester produced with all environmentally safe ingredients, including a new catalyst that replaces the heavy metal antimony, a known toxin. According to ATSDR, *“Breathing high levels for a long time can irritate your eyes and lungs and can cause heart and lung problems, stomach pain, diarrhea, vomiting, and stomach ulcers.”*<sup>1</sup>

### ECO-INTELLIGENT<sup>®</sup> POLYESTER, HOWEVER, IS

- Made from a fully optimized fiber using a new, environmentally safe catalyst
- Designed with optimized dyestuffs and chemicals, which replace harmful chemicals and hazardous heavy metals
- Designed to be safely recycled into new fabric at the end of its commercial life, with no hazardous by-products
- Made with sustainable manufacturing processes, allowing for limitless design and color

<sup>1</sup> [www.atsdr.cdc.gov/tfacts23.html](http://www.atsdr.cdc.gov/tfacts23.html); The Agency for Toxic Substances and Disease Registry (ATSDR), based in Atlanta, Georgia, is a federal public health agency of the U.S. Department of Health and Human Services.



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## ADDITIONAL INFORMATION

At Carnegie, we believe that the way you make a product is just as important as what you make. We start by using the most environmentally friendly chemicals available in the manufacturing process. Eco-Intelligent Polyester is manufactured in such a way so as to:

- Use renewable, hydroelectric energy
- Track energy, water and raw material use
- Reduce waste at all levels of manufacturing operation
- Eliminate the need for lubricants through a proprietary spinning process
- Manufactured at an ISO 14001 certified facility

All Eco-Intelligent® Polyesters have been rated “Level 4” within the McDonough Braungart Design Chemistry (MBDC) Optimization Scale for eco-effectiveness. This is a five-step optimization scale (with five being the highest level) representing progress in assessing and optimizing a product’s material composition and production processes.

To attain a Level 4 rating, all component dyes and auxiliary chemicals must pass McDonough Braungart’s strict measures of safety. A Level 4 product is considered “Optimized”. This means the product has been fully assessed and, to the extent feasible, optimized for material health and safety according to MBDC’s Cradle-to-Cradle Design Protocol for Material and Chemical Assessment. In addition, Eco-Intelligent® polyesters are designed for optimal value recovery within closed-loop systems.

Eco-Intelligent® Polyester is at the forefront of environmentally informed fibers, and we are always looking for the next best environmentally friendly fibers and production techniques.

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## GLOSSARY

**ANTIMONY** – a heavy metal used as a catalyst in the production of polyester.

**MBDC LEVEL 4 STATUS** – this is a 5 step optimization scale (5 is highest) representing progress in assessing & optimizing a product material composition & production process.

**PBT** – PBT's are chemicals that are **persistent**, (i.e.: they do not biodegrade) **bioaccumulative** (i.e.: accumulate in body tissue) and/or **toxic**

**RECYCLE** – the extraction and recovery of valuable materials from scrap or other discarded materials.