



# KnollTextiles and Environmental Sustainability

**KnollTextiles**

This guide serves as a summary of our environmental products and corporate initiatives. We continue to take steps toward offering more choices in sustainable design, with our new introductions throughout the year. As part of the larger Knoll family, we are committed to measuring the results of our efforts to have a neutral impact on climate change, as demonstrated through our continued voluntary participation in the Clinton Global Initiative, and in supporting green building, as evidenced in our 11 LEED-certified facilities and showrooms since 2011. For more information, visit [www.knoll.com](http://www.knoll.com).

**Knoll**Textiles



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1. Glam, Glisten, Glaze wallcovering (recycled polyester) designed by Suzanne Tick
2. Biota upholstery (recycled polyester) designed by Suzanne Tick
3. Biota and Earthwork upholsteries (recycled polyester) designed by Suzanne Tick
4. Modular Imago designed by Suzanne Tick

## KnollTextiles Environmental Fabrics

KnollTextiles has over eighty fabrics that are designated with a “green bar,” which indicates either recycled content, natural fiber, or eco-intelligent® fiber. These fabrics can help companies, healthcare organizations and educational institutions achieve leadership in Energy and Environmental Design (LEED®) workplace certification.

### Recycled Content

Where applicable, KnollTextiles fabric tags designate specific percentages of post-consumer or post-industrial recycled polyester. Post-consumer recycled fiber is generated from residential and consumer waste. Post-industrial recycled fibers are recovered from industrial and manufacturing processes.

### Rapidly Renewable Materials

Where applicable, each tag designates the percentage of natural fiber that is considered renewable. A renewable resource, such as wool, can be replenished at a rate equal to or greater than its rate of depletion.

### Third Party Certification

Several of our products conform to the Oeko-Tex standard and meet the human-ecological testing requirements for harmful substances.

### GREENGUARD®

Most KnollTextiles are GREENGUARD certified. GREENGUARD Environmental Institute provides third party certification for low chemical and particle emissions in interiors products.

### Imago Renew

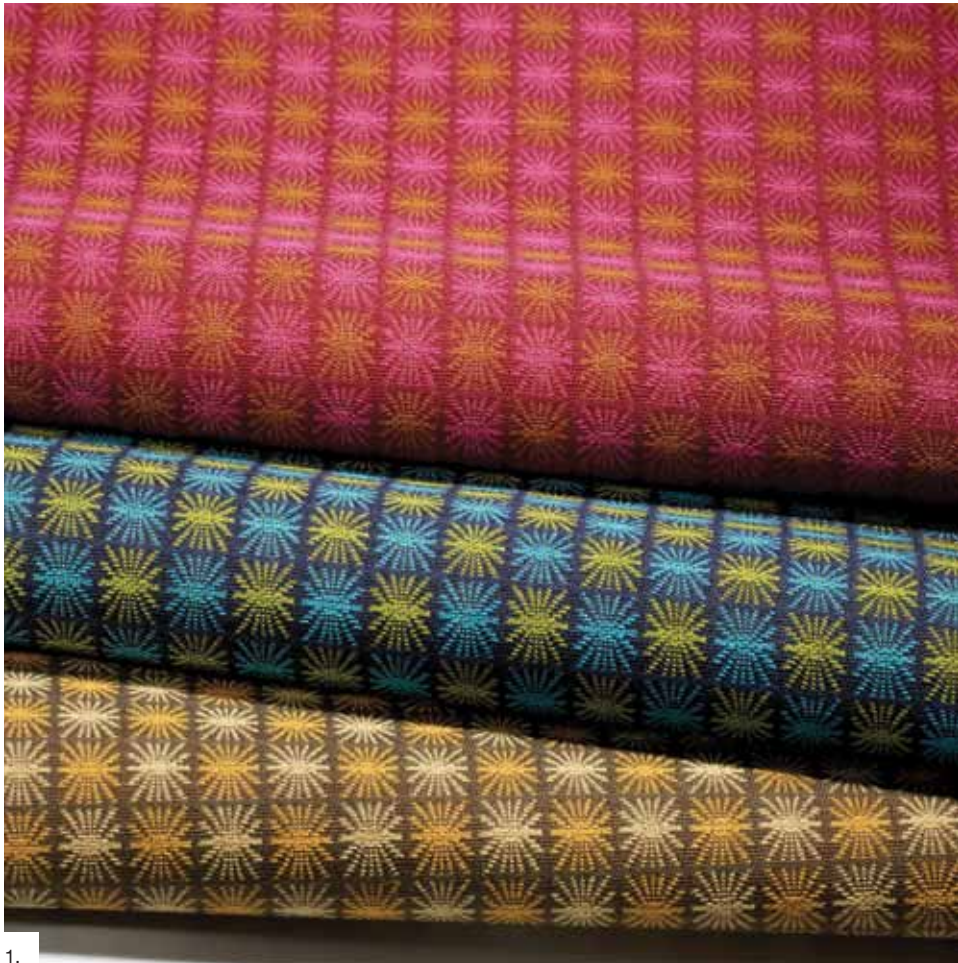
Imago is now available with 40% post-industrial recycled PETG as a custom option. This product is GREENGUARD and SCS Gold Indoor Advantage™ certified. It can contribute to LEED certification in categories related to recycled content, regional materials, and indoor air quality.

### Terratex™

Fabrics that bear the Terratex name are made from 100% recycled polyester and are recyclable. They are also manufactured with continuously improved methods to reduce waste, emissions, energy, and water use. Plus, for all Terratex products in our line, 100% of the electricity used to make these products is matched by Green-e certified renewable energy certificates; these credits support clean wind energy.

### Eco-Intelligent® Polyester

Eco-Intelligent polyester is produced and dyed with environmentally safe ingredients, including a catalyst that replaces the heavy metal antimony, a known carcinogen. The product is a “technical nutrient,” designed to be safely recycled into new fabric at the end of its life, with no hazardous by-products.



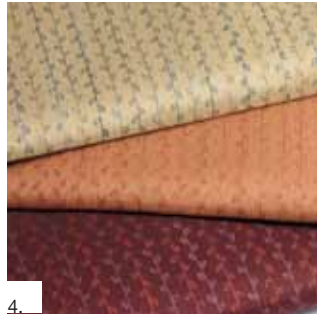
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1. Kaleidoscope upholstery (Crypton® Green) designed by Dorothy Cosonas
2. Legend upholstery (Crypton® Green) designed by Dorothy Cosonas
3. Eclat Weave upholstery (Nano-TEX) designed by Anni Albers
4. Fable upholstery (Crypton® Green) designed by Dorothy Cosonas

## KnollTextiles Environmentally-Sensitive Finishes

KnollTextiles is committed to bringing you high performance finishes that are also safe for the environment, including Crypton® Green and Nano-Tex® with Durablock™.

### **Crypton® Green**

- + These fabrics combine post-consumer recycled polyester fibers with an optimized chemistry for reduced environmental impact and human safety.
- + The Crypton Green formula provides the same moisture, stain, odor, and bacteria resistance expected from a performance finish, with an added guarantee that each ingredient has low volatile organic compound (VOC) emissions.
- + The re-engineered fabric system underwent evaluation to prove its safety, resulting in Cradle to Cradle certification as well as SCS Gold Indoor Advantage™ certification. Crypton Green also supports renewable energy. In order to offset energy used for every yard produced, Green-e certified energy certificates are purchased to fund the expansion of renewable energy resources.

### **Nano-Tex® / Nano-Tex® with Durablock™**

- + This fabric system is recyclable when used on a 100% polyester product.
- + Nano-Tex provides long-lasting spill resistance. Durablock is a moisture barrier that can be combined with Nano-Tex for added performance benefits.
- + Within the KnollTextiles line, Nano-Tex is standard on several upholstery products. In addition, Nano-Tex and Nano-Tex with Durablock can be added to over 60 fabrics for an additional cost and lead time.



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- 1. Philadelphia showroom (LEED certified)
- 2. KnollTextiles sampling
- 3. Mantilla wallcovering (recycled polyester) designed by Suzanne Tick

# Knoll, Inc. and Environmental Sustainability

Today, Knoll focuses on three key environmental areas: Climate Change; Third-Party Certification; and Environmentally-Friendly Materials, Products, and Manufacturing Processes.

## Climate Change

- + Knoll has implemented a comprehensive energy management program to meet its commitment to the Chicago Climate Exchange (CCX®). CCX is a legally binding commitment to reduce our greenhouse gas emissions in North America. In 2006, Knoll became the first company in the contract furniture industry to join the CCX.
- + Knoll has been an active participant in the Clinton Global Initiative since 2006. Clinton Global Initiative brings together global leaders to devise and implement innovative solutions to some of the world's most pressing challenges, such as global warming.

## Third-Party Certification

- + We reach out and align with third party certification organizations that share our commitment to sustainability. All Knoll facilities worldwide are ISO (International Organization for Standardization) 14001 certified for environmental management.
- + Most KnollTextiles upholstery, panel, drapery, and Imago™ products, and all Knoll office systems and furniture, are certified by the GREENGUARD® Environmental Institute for reduced low chemical and particle emissions in interiors products.

- + Knoll products contain wood resources certified by the Forest Stewardship Council in its North American wood products.

## Environmentally-Friendly Materials, Products, and Manufacturing

- + Knoll has adopted the SMaRT® Consensus Sustainable Product Standard for furniture and systems.
- + SMaRT requires the completion of a Life Cycle Analysis (LCA), which ensures that all key materials and processes are captured and converted into environmental impacts.
- + Knoll has comprehensive programs to address issues such as water protection, waste reduction, recycling, and health and human safety.

## Full Circle

Knoll introduced Full Circle, an exclusive resource recovery program developed with ANEW, a non-profit organization dedicated to extending the life cycle of surplus furniture, fixtures and equipment (FF&E), architectural materials, and building assets in an economically, socially and environmentally responsible way. Options include reselling, recycling, and/or repurposing FF&E, or converting what is left to clean Energy-from-Waste



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1. Photon panel fabric (recycled polyester) designed by Suzanne Tick
2. Mantilla and Domus wallcovering (recycled polyester) designed by Suzanne Tick
3. Knoll's LEED-certified Lubin building

## KnollTextiles and LEED®

KnollTextiles products can help clients achieve Leadership in Energy and Environmental Design (LEED) certification for Existing Buildings, Commercial Interiors, and New Construction. The system is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings.

LEED credits apply to all of the materials within a building, with fabric being one potential component. Credits fall into the following categories:

### **Recycled Materials and Rapidly Renewable Materials**

These credits involve the use of materials, including furniture and furnishings, with post-consumer and post-industrial recycled content or products made from natural fibers harvested within a 10-year cycle.

### **Regional Materials**

This credit involves materials and products that are manufactured regionally within 500 miles of the project.

### **Indoor Air Quality**

Credits are also available for furniture and textiles that can make a positive contribution in the Indoor Environmental Quality category. GREENGUARD certification contributes to this category.

### **Innovation Credits**

Innovation credits can also be given for products that show exceptional performance above the standards requirements, including Cradle to Cradle certified products.

### **Knoll LEED Facilities**

Knoll is committed to obtaining LEED certification when building or refurbishing our facilities and showrooms. Completed Knoll LEED projects include the San Francisco and Philadelphia showrooms and the Knoll Lubin manufacturing facility in East Greenville, PA. Additional showrooms are currently undergoing the certification process.



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For more information on Knoll environmental initiatives, visit [knoll.com/environment](http://knoll.com/environment)  
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