



Design for the Environment Textiles

The Design for the Environment DfE protocol is a fundamental part of the Herman Miller product development process.

Every new textile is developed using three environmental lenses and all existing textiles have been assessed following the same criteria:

Material Health & Safety

Is the chemical content of all fibers, dyes, and finishes safe for human health and the environment?

Material Content & Disposal

Does the fiber contain recycled or renewable content? Is the complete textile made of homogenous or compatible components, so it may be recycled or composted at the end of its useful life?

Energy Consumption

Is the textile made at a carbon neutral facility and/or one that uses renewable energy? Is the textile itself carbon neutral?

Additional Information

High Performance Textiles Brochure

Our Materials offering includes a number of textiles with performance qualities which make them appropriate for special applications. These include textiles that are engineered to be stain resistant, water resistant, antimicrobial, or antimony free.

http://www.hermanmiller.com/content/dam/hermanmiller/documents/materials/reference_info/High_Performance_Textiles_overview.pdf

References & Links

ACT Green Glossary

ACT (Association for Contract Textiles) is a professional trade association comprised of companies involved in the design, development, production and promotion of textiles for commercial interiors. ACT has compiled a glossary of environmental terms that are used in reference to the textile industry in an effort to demystify environmental jargon.

<http://www.contracttextiles.org/glossary>

Crypton Green

Crypton Green is a stain resistant, antimicrobial and breathable moisture barrier technology. Woven textiles are immersed in a formula that permanently encases each individual fiber in a protective coating that becomes part of the textile itself.

<http://www.cryptonfabric.com/crypton/about.do?wtabId=3>

GreenShield

GreenShield is a nanotechnology finish that mimics the surface of the lotus leaf using the principle of “micro-roughness” to reduce the use of chemicals on fabrics. Undetectable to the human touch, “micro-roughness” works at a molecular level and induces water and oil to ride on a pocket of air, never penetrating the fabric.

<http://www.greenshieldfinish.com/>

Materials

Seating

| | CONTENT | FINISH | BACKING | FIBER CONTENT | MATERIAL CHEMISTRY | END OF LIFE | ENERGY |
|----------------------------|--|--------|-----------------------------|---------------|--------------------|-------------|--------|
| PRICE CATEGORY 1 | | | | | | | |
| 8Z Pellicle 23100 | 56% elastomeric 44% polyester | | | ○ | ● | ○ | ○ |
| AireWeave2 1A700 | 67% elastomeric 33% antimony-free polyester | | | ○ | ● | ○ | ○ |
| ColorGuard 3P00 | 100% vinyl | | 88% polyester 12% cotton | ○ | ○ | ○ | ○ |
| Crossing 8T00 | 86% antimony-free polyester 14% polyester | | polyester | ● | ● | ○ | ● |
| Flexnet 6V00 | 69% elastomeric 31% polyester | | | ○ | ● | ○ | ● |
| Gem 9500 | 100% antimony-free polyester | | | ● | ● | ○ | ● |
| Interweave 6500 | 71% elastomeric 29% polyester | | | ○ | ● | ○ | ○ |
| Lyris 2 4W00 | 74% elastomeric 26% polyester | | | ○ | ● | ○ | ○ |
| Monologue 1MN00 | 56% post-consumer recycled polyester 44% polyester | | | ● | ● | ○ | ● |
| Pellicle Classic 3D00/3V00 | 70% elastomeric 30% polyester | | | ○ | ● | ○ | ○ |
| Stretch Knit 3DK00 | 97% polyester 3% spandex | | | ○ | ● | ○ | ○ |
| Tailored 23500 | 56% polyester 44% post-consumer recycled polyester | | acrylic | ○ | ○ | ○ | ● |
| Whisper 1WS00 | 73% post-consumer recycled polyester 27% polyester | | | ● | ● | ○ | ○ |
| PRICE CATEGORY 2 | | | | | | | |
| Crepe 9200 | 100% pre-consumer recycled polyester | | | ● | ● | ○ | ● |
| Fish Net 22Q00 | 84% post-consumer recycled polyester 16% post-industrial recycled polyester | | | ● | ○ | ○ | ● |
| Loom 1LM00 | 100% polyester | | | ○ | ● | ○ | ○ |
| Marvel 1MV00 | 100% polyurethane | | 100% polyester knit | ○ | ● | ○ | ○ |
| Medley 1HA00 | 100% polyester | | | ○ | ● | ○ | ○ |
| Moiré 3A00 | 55% post-consumer recycled polyester 45% pre-consumer recycled polyester | | | ● | ● | ○ | ○ |
| Pellicle Tuxedo 4M00/4Q00 | 64% elastomeric 36% polyester | | | ○ | ● | ○ | ○ |
| Pellicle Waves 4E00/4F00 | 68% elastomeric 32% polyester | | | ○ | ● | ○ | ○ |
| Rhythm 3000 | 100% polyester | | | ○ | ● | ○ | ● |
| Rivet 1RV00 | 100% post-consumer recycled polyester | | | ● | ● | ○ | ○ |
| Twist 8R00 | 80% antimony-free polyester 13% pre-consumer recycled polyester 7% polyester | | | ● | ● | ○ | ● |
| Well Suited 22T00 | 79% polyester 21% post-consumer recycled polyester | | | ● | ○ | ○ | ● |

Seating continued on next page

Fiber Content

- Renewable or 100% recycled or or antimony free
- 50%+ of textile any combination of these
- Below 50%

Material Chemistry

- Dyes/treatments are optimized per DfE protocol
- Dyes/treatments are assessed, but not optimized
- Dyes/treatments are not assessed

End of Life

- Recyclable or compostable
- Not recyclable or compostable

Energy

- Carbon neutral textile
- Renewable energy used to manufacture or facility is carbon neutral
- Textile and facility not carbon neutral or using renewables

Materials

Seating *(continued)*

| | CONTENT | FINISH | BACKING | FIBER CONTENT | MATERIAL CHEMISTRY | END OF LIFE | ENERGY |
|--------------------------|--|--------------------------------|---------------------|---------------|--------------------|-------------|--------|
| PRICE CATEGORY 3 | | | | | | | |
| Bento 7000 | 100% antimony-free polyester | | | ● | ● | ○ | ● |
| Latitude 8M00 | 100% polyester | | | ○ | ● | ○ | ○ |
| Pins and Needles 22R00 | 61% post-consumer recycled polyester 24% polyester 15% pre-consumer recycled polyester | | | ● | ○ | ○ | ○ |
| Stitches 8U00 | 54% polyester 46% post-consumer recycled polyester | | | ○ | ● | ○ | ● |
| String Plaid 22V00 | 100% post-consumer recycled polyester | BLOCKaide | acrylic | ● | ○ | ○ | ○ |
| PRICE CATEGORY 4 | | | | | | | |
| Bingo 7Y00 | 100% pvc-free polyurethane | Resilience | 100% polyester knit | ○ | ● | ○ | ● |
| Cygnus 5400 | 69% elastomeric 31% polyester | | | ○ | ● | ○ | ○ |
| Dialogue 1DL00 | 100% polyester | | | ○ | ○ | ○ | ○ |
| Mercer 21300 | 50% solution dyed recycled nylon 50% solution dyed nylon | BLOCKaide | | ● | ● | ○ | ○ |
| Network 1A900 | 100% polyester | | | ○ | ● | ○ | ○ |
| Plateau 6J00 | 100% polyester | | | ○ | ○ | ○ | ● |
| Quilty 6S00 | 100% antimony-free polyester | GreenShield | | ● | ● | ○ | ● |
| Spools 8Y00 | 49% polyester 45% pre-consumer recycled polyester 6% post-consumer recycled polyester | Crypton Green Moisture Barrier | | ● | ● | ○ | ○ |
| Strata 22P00 | 50% solution dyed recycled nylon 50% solution dyed nylon | BLOCKaide | | ● | ● | ○ | ○ |
| PRICE CATEGORY 5 | | | | | | | |
| Hopsak 14A00 | 88% pre-consumer recycled polyester 12% post-consumer recycled polyester | | acrylic | ● | ● | ○ | ● |
| Noble 22N00/22H00 | 100% wool | | | ● | ○ | ● | ○ |
| PRICE CATEGORY 6 | | | | | | | |
| Balance 3500 | 100% polyester | | | ○ | ● | ○ | ● |
| Outdoor Weave 7200 | 50% elastomeric 50% polypropylene | | | ○ | ● | ○ | ○ |
| PRICE CATEGORY 9 | | | | | | | |
| Leather 2100 | 100% leather | | | ● | ○ | ● | ● |
| PRICE CATEGORY 11 | | | | | | | |
| MCL Leather 1R00 | 100% leather | | | ● | ○ | ● | ● |

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Materials

Workspaces

| | CONTENT | FINISH | BACKING | FIBER CONTENT | MATERIAL CHEMISTRY | END OF LIFE | ENERGY |
|-------------------------|--|--------|-----------------------------|---------------|--------------------|-------------|--------|
| PRICE CATEGORY 1 | | | | | | | |
| Bubblotack 8A00 | 100% polyester | | | ○ | ● | ○ | ● |
| Chain 2V00 | 100% pre-consumer recycled polyester | | | ● | ● | ○ | ● |
| Crossing 8T00/8500 | 86% antimony-free polyester 14% polyester | | polyester | ● | ● | ○ | ● |
| Gem 9500 | 100% antimony-free polyester | | | ● | ● | ○ | ● |
| Grasscloth 2I00 | 72% post-consumer recycled polyester 28% pre-consumer recycled polyester | | | ● | ○ | ○ | ● |
| Monologue 1MN00 | 56% post-consumer recycled polyester 44% polyester | | | ● | ● | ○ | ● |
| Multiscrim 8B00 | 100% polyester | | | ○ | ● | ○ | ● |
| Resonance 5T00 | 100% polyester | | | ○ | ● | ○ | ● |
| Scrim Trim 8C00 | 82% polyester 18% spandex | | | ○ | ○ | ○ | ● |
| Shade 22W00 | 91% polypropylene 9% polyester | | | ○ | ○ | ○ | ○ |
| Silkworm 2M00 | 58% recycled polyester 42% polyester | | | ● | ● | ○ | ● |
| Slant 6J00 | 51% polyester 49% recycled polyester | | | ○ | ● | ○ | ● |
| Tailored 23500 | 56% polyester 44% post-consumer recycled polyester | | acrylic | ○ | ○ | ○ | ● |
| Whisper 1WS00 | 73% post-consumer recycled polyester 27% polyester | | | ● | ● | ○ | ○ |
| PRICE CATEGORY 2 | | | | | | | |
| Code 1CD00 | 54% post-consumer recycled polyester 46% pre-consumer polyester | | | ● | ● | ○ | ○ |
| ColorGuard 3P00 | 100% vinyl | | 88% polyester 12% cotton | ○ | ○ | ○ | ○ |
| Cord 5100 | 51% antimony-free polyester 49% polyester | | | ● | ● | ● | ● |
| Crepe 9200 | 100% pre-consumer recycled polyester | | | ● | ● | ○ | ● |
| Fish Net 22Q00 | 84% post-consumer recycled polyester 16% post-industrial recycled polyester | | | ● | ○ | ○ | ● |
| Frost 5700 | 100% pre-consumer recycled polyester | | polyester | ● | ● | ○ | ● |
| Grograin 8400 | 100% pre-consumer recycled polyester | | | ● | ● | ○ | ● |
| Horizon 4N00 | 65% antimony-free polyester 35% polyester | | | ● | ○ | ○ | ● |
| Loom 1LM00 | 100% polyester | | | ○ | ○ | ○ | ○ |
| Medley 1HA00 | 100% polyester | | | ○ | ● | ○ | ○ |

Workspaces continued on next page

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Workspaces *(continued)*

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|-------------------------|--|-------------|---------|---------------|--------------------|-------------|--------|
| PRICE CATEGORY 2 | | | | | | | |
| Moiré 3A00 | 55% post-consumer recycled polyester 45% pre-consumer recycled polyester | | | ● | ● | ○ | ○ |
| Rivet 1RV00 | 100% post-consumer recycled polyester | | | ● | ● | ○ | ○ |
| Tape 4300 | 52% polypropylene 48% pre-consumer recycled polyester | | acrylic | ○ | ● | ○ | ● |
| Twist 8R00/5S00 | 80% antimony-free polyester 13% pre-consumer recycled polyester 7% polyester | | | ● | ● | ○ | ● |
| Well Suited 22T00 | 79% polyester 21% post-consumer recycled polyester | | | ● | ○ | ○ | ● |
| PRICE CATEGORY 3 | | | | | | | |
| Bento 7000 | 100% antimony-free polyester | | | ● | ● | ○ | ● |
| Connection 1FB0 | 100% antimony-free polyester | | | ● | ● | ○ | ● |
| Current 1FC0 | 100% antimony-free polyester | | | ● | ● | ○ | ● |
| Glaze 8Z00 | 100% pre-consumer recycled polyester | | | ● | ● | ○ | ● |
| Ground Cloth 4700 | 100% polyester | | | ○ | ● | ○ | ● |
| Kira 2 5D00 | 100% post-consumer recycled polyester | | | ● | ○ | ○ | ○ |
| Pins and Needles 22R00 | 61% post-consumer recycled polyester 24% polyester 15% pre-consumer recycled polyester | | | ● | ○ | ○ | ○ |
| Savannah 8L00 | 59% pre-consumer recycled polyester 24% polypropylene 17% post-consumer recycled polyester | | | ● | ○ | ○ | ● |
| Stitches 8U00/5Z00 | 54% polyester 46% post-consumer recycled polyester | | | ○ | ● | ○ | ● |
| Strands 8W00 | 100% pre-consumer recycled polyester | | | ● | ● | ○ | ● |
| String Plaid 22V00 | 100% post-consumer recycled polyester | BLOCKaide | acrylic | ● | ○ | ○ | ○ |
| PRICE CATEGORY 4 | | | | | | | |
| Glisten 2X00 | 84% polyester 16% pre-consumer recycled polyester | | | ○ | ○ | ○ | ● |
| Loft 22L00 | 100% wool | | | ● | ○ | ● | ○ |
| Quilty 6S00 | 100% antimony-free polyester | GreenShield | | ● | ● | ○ | ● |
| Sironetta 6300 | 55% post-consumer recycled polyester 45% pre-consumer recycled polyester | | | ● | ● | ○ | ○ |
| PRICE CATEGORY 5 | | | | | | | |
| Hopsak 14A00 | 88% post-consumer recycled polyester 12% pre-consumer recycled polyester | | | ● | ● | ○ | ● |

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Materials

FTC Guides for the Use of Environmental Marketing Claims

FTC Guides represent administrative interpretations of laws administered by the Federal Trade Commission for the guidance of the public in conducting its affairs in conformity with legal requirements. These guides specifically address the application of the FTC Act to environmental advertising and marketing practices. They provide the basis for voluntary compliance with such laws by members of industry.

December 2017

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