

NOVEMBER 2011 MATERIALS UPDATE

Material ConneXion

As part of our promise to provide our clients with the newest and most innovative materials sourced from around the world, we are pleased to present our monthly Materials Update. Here you will find the latest materials to have been added to the database, upon their acceptance by our regular jury process.

These materials can be seen online and on-site at our New York location. Selected materials are also available at our Cologne, Daegu, Milan, and Bangkok locations; please call or email us at any of the addresses listed for more information.

Interested in these materials but not a client? Our subscription-based Materials Library is the world's largest library of advanced, innovative and sustainable materials and processes. With 45-60 new materials added every month, our libraries around the world give you immediate access to 6,500+ materials onsite and online, Material Specialists and Monthly Updates on what's new.

Become a member of Material ConneXion® today!

Contact us at 212 842 2050 or access@materialconnexion.com to find out about more about membership levels and benefits.

Need hands-on expertise?

Our Advanced Material Solutions Team™ provides a wide array of consulting services.

Contact us at:

consulting@materialconnexion.com or call today.

Andrew H. Dent, PhD

Vice President, Library & Material Research

Material ConneXion®

P +1 212 842 2050

E adent@materialconnexion.com

W www.materialconnexion.com

Chompoonuj Weerakitti

Director, Library & Materials Research

Material ConneXion® Bangkok

P +66 (0) 2 664 8448

E cweerakitti@materialconnexion.com

W www.materialconnexion.com/th

Karsten Bleymehl

Director, Library & Materials Research

Material ConneXion® Cologne

P +49 (0) 221 99 22 28 - 22

E kbleymehl@materialconnexion.com

W www.materialconnexion.com/de

Sun Ah Kim

Director of Library & Consulting

Material ConneXion® Daegu

P +82 53 740 0033

E sakim@materialconnexion.com

W www.materialconnexion.com/kr

Micol Costi

Director, Library & Materials Research

Material ConneXion® Milano

P +39 02 36553060/36553169

E mcosti@materialconnexion.com

W www.materialconnexion.com/it

NOVEMBER 2011 MATERIALS UPDATE

Material ConneXion®

CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

Ceramic

Natural

Process

MC#: 0056-07

Paneling constructed of bamboo strips that are precision milled and applied to a thin fabric backing with a light adhesive. They are flexible and can be applied to concave, convex, flat or circular surfaces. Applications are for commercial, retail, and hospitality environments.



MC#: 0246-09

Decorative architectural exterior cladding panels that have been designed to have high impact-, weather- and fade-resistance. Available in a range of colors, effects and wood grains, this paneling is intended for use as vertical applications such rain-screens.



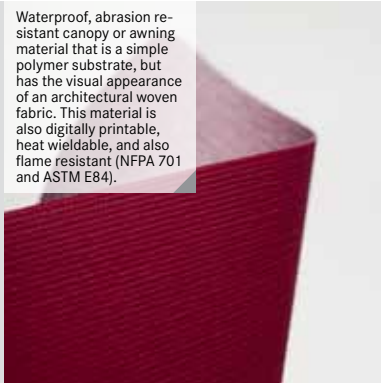
MC#: 2564-07

Lightweight water proof fire resistant (NFPA 701, ASTM E84) vinyl polymer substrate material used in the fabrication of various awning and canopy structures. It has the look and feel of nonwoven fabric materials but also exhibits superior strength and abrasion resistance.



MC#: 2564-08

Waterproof, abrasion resistant canopy or awning material that is a simple polymer substrate, but has the visual appearance of an architectural woven fabric. This material is also digitally printable, heat weldable, and also flame resistant (NFPA 701 and ASTM E84).



MC#: 5163-03

An organic, non-porous zero thermal expansion glass ceramic composed of lithium aluminosilicate. It is made up of 70 - 78 % high-quartz micro-crystallites that are 30-50 nm in size embedded in a glassy phase. Used in optic applications and precise scientific measurements.



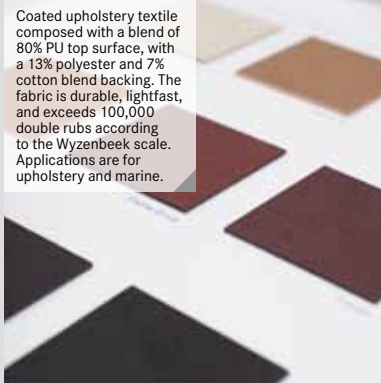
MC#: 5190-08

Textured upholstery textile composed with 82% polyester and 18% acrylic. The fabric is durable, lightfast (40 hours AATCC 16), and exceeds 50,000 double rubs according to the Wyzenbeek scale. Applications are for upholstery.



MC#: 5190-09

Coated upholstery textile composed with a blend of 80% PU top surface, with a 13% polyester and 7% cotton blend backing. The fabric is durable, lightfast, and exceeds 100,000 double rubs according to the Wyzenbeek scale. Applications are for upholstery and marine.



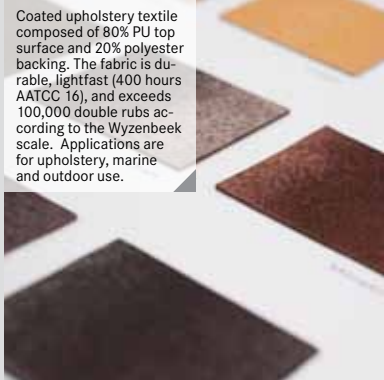
MC#: 5190-10

Coated upholstery textile composed of 80% PU top surface and 20% polyester backing. The fabric is durable, lightfast (400 hours AATCC 16), and exceeds 100,000 double rubs according to the Wyzenbeek scale. Applications are for upholstery, marine and outdoor use.



MC#: 5190-11

Coated upholstery textile composed of 80% PU top surface and 20% polyester backing. The fabric is durable, lightfast (400 hours AATCC 16), and exceeds 100,000 double rubs according to the Wyzenbeek scale. Applications are for upholstery, marine and outdoor use.



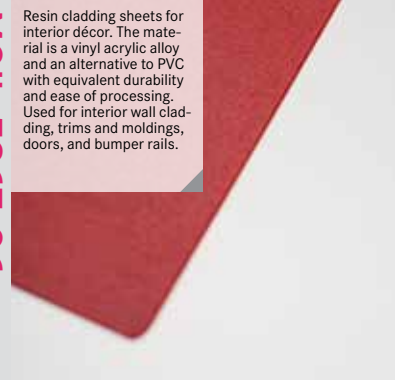
MC#: 5190-12

Coated upholstery textile composed of 80% PU top surface and 13% polyester and 7% cotton. The fabric is durable, lightfast (400 hours AATCC 16), and exceeds 100,000 double rubs according to the Wyzenbeek scale. Applications are for upholstery, marine and outdoor use.



MC#: 5367-06

Resin cladding sheets for interior décor. The material is a vinyl acrylic alloy and an alternative to PVC with equivalent durability and ease of processing. Used for interior wall cladding, trims and moldings, doors, and bumper rails.



NOVEMBER 2011 MATERIALS UPDATE

Material ConneXion®

CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

Ceramic

Natural

Process

MC#: 5367-07

Resin cladding sheets for interior décor with the appearance of wood veneer. This Cradle to CradleCM Gold certified material is a vinyl alloy and is a lower impact alternative to PVC for durability and ease of processing. Used for interior wall cladding, wall panels, doors, and trim.



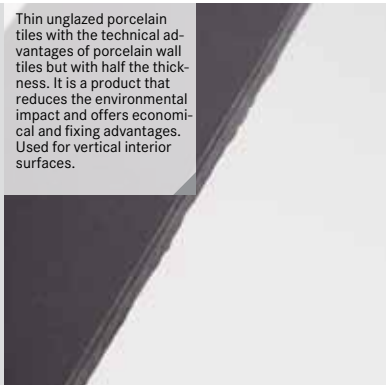
MC#: 5625-03

Thin unglazed porcelain tiles with the technical advantages of porcelain wall tiles but with half the thickness. It is a product that reduces the environmental impact and offers economical and fixing advantages. Used for vertical interior surfaces.



MC#: 5625-04

Thin unglazed porcelain tiles with the technical advantages of porcelain wall tiles but with half the thickness. It is a product that reduces the environmental impact and offers economical and fixing advantages. Used for vertical interior surfaces.



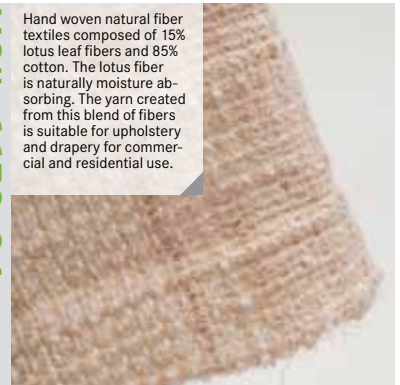
MC#: 6271-04

Raw, white birch bark veneer adhered to an MDF substrate. This veneer is used to create vertical and horizontal cladding and decorative surfaces. Each surface is unique in appearance due to the variances of the veneers. Applications are for interior, wall decoration.



MC#: 6650-04

Hand woven natural fiber textiles composed of 15% lotus leaf fibers and 85% cotton. The lotus fiber is naturally moisture absorbing. The yarn created from this blend of fibers is suitable for upholstery and drapery for commercial and residential use.



MC#: 6650-05

Hand woven natural fiber textiles composed of 15% pineapple leaf fibers and 85% cotton. The leaf fibers have a mild bacterial resistance according to the AATCCTM 146:2004 test. The yarn blend is suitable for upholstery and drapery for commercial and residential use.



MC#: 6650-06

Hand woven natural fiber textiles composed of 15% galanga leaves and 85% cotton. The yarn created from this blend of fibers is suitable for upholstery and drapery for commercial and residential use.



MC#: 6797-11

Hand woven natural fiber textiles composed of 15% galanga leaves and 85% cotton. The yarn created from this blend of fibers is suitable for upholstery and drapery for commercial and residential use.



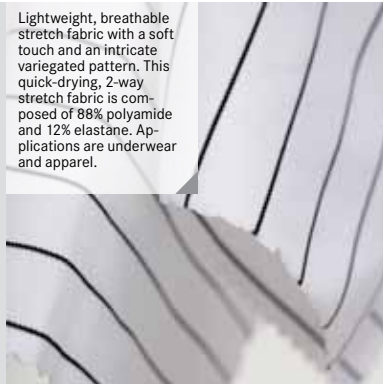
MC#: 6797-12

Soft, extremely lightweight stretch fabric. This thin, breathable fabric improves microcirculation and muscle oxygenation both during physical activity and when at rest. Applications include swimwear, sportswear, and intimate apparel.



MC#: 6797-13

Lightweight, breathable stretch fabric with a soft touch and an intricate variegated pattern. This quick-drying, 2-way stretch fabric is composed of 88% polyamide and 12% elastane. Applications are underwear and apparel.



MC#: 6818-02

Window frame in-fill panels that reduce heat loss and gain associated with glass products. These panels consist of 5 layers: 2 exterior skins, exterior stabilizer, core, interior stabilizer and interior skin. Used for break-prone and limited-visibility window.



NOVEMBER 2011 MATERIALS UPDATE

Material ConneXion®

CATEGORY INDEX

Carbon	Cement
Metal	Glass
Polymer	Ceramic
Natural	Process

MC#: 6818-03

Panel system designed to utilize an Architectural Composite Material (ACM) face skin. Panel clips are mechanically fastened from the panel to the wall substrate. Applications are for wall paneling systems.



MC#: 6841-01

Window frame in-fill panels that reduce heat loss and gain associated with glass products. These panels commonly consist of 5 layers: exterior skin, exterior stabilizer, core, interior stabilizer and interior skin. Applications are for window openings.



MC#: 6842-01

Lightweight construction material system that is an alternative to particleboard, MDF, plywood, and solid wood based systems. It is made almost entirely (99%) from PCR paper. Used for eco-friendly furniture, bookshelves, and storage containers.



MC#: 6843-01

Lightweight extruded profiles for floor and wall surfaces that are a re-constituted wood-based composite. It is composed of 60% wood powder, 35% PVC and 5% color pigment. Used for external walls, ceiling cladding, louvers, awnings and sun shades.



MC#: 6844-01

Outdoor fabric made from a blend of polyester and polyvinyl chloride (PVC) that has been coated with titanium dioxide. The titanium dioxide coating gives this fabric 'self cleaning' properties. It is currently used in camping and outdoor products such as tents.



MC#: 6844-02

Strong, all-weather self adhesive tape repair system that is an alternative to glue on a patch canvas repair kits. Used to repair damaged automotive canvases, tents, stage sheets and tarps.



MC#: 6845-02

100% recycled rubber mulch from passenger and truck tires. It resembles organic mulch, has excellent drainage, maintains soil moisture, and is durable. Used for parking lots, driveways, schools, park landscapes, playgrounds, golf courses and walkways.



MC#: 6845-03

100% recycled rubber granules made from passenger and truck tires. This fine format ground rubber is used for arena fill (equestrian), synthetic turf in-fill, asphalt road additive and molded products.



MC#: 6846-01

High performance, textured rubber tiles. These 100% rubber tiles have good chemical and slip resistance, are highly durable, color- and light-fast, sound absorbing and have a Class 1 Fire Rating according to ASTM 648. Applications are for commercial flooring.



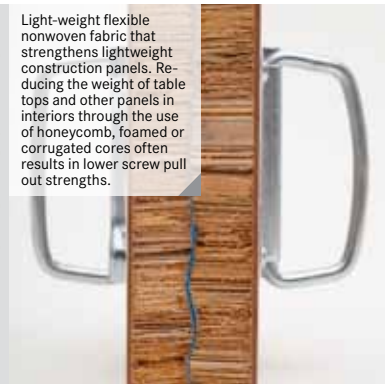
MC#: 6847-01

This is a fully compressed, air-cured, fiber cement sheet that is finished with a semi-transparent acrylic coating that can be used for interior and exterior building construction and cladding. The base sheet is composed of cement, mineral fillers, cellulose and synthetic fibers.



MC#: 6848-01

Light-weight flexible nonwoven fabric that strengthens lightweight construction panels. Reducing the weight of table tops and other panels in interiors through the use of honeycomb, foamed or corrugated cores often results in lower screw pull out strengths.



NOVEMBER 2011 MATERIALS UPDATE

Material ConneXion®

CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

Ceramic

Natural

Process

MC#: 6848-02

Rigid lightweight panel material that is an alternative to traditional honeycomb board products. The structure of the core is created by the bonding of dried cattail leaves to each other to create a solid structure. Used as decking.



MC#: 6849-01

Recycled rubber flooring made from up to 95% PCR rubber tire and a PU binder. It can be installed on concrete, wood, asphalt and earth by applying a polyurethane adhesive. Applications include patios, residential patios, balconies, pools, decks and walkways.

