

JUNE 2013 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 7,000+ materials onsite and online, Material Specialists and Monthly Updates on what's new.

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JUNE 2013 MATERIALS UPDATE

Material ConneXion®

CATEGORY INDEX



MC#: 0139-13

Thermally insulating fabric with a laminated coating that incorporates natural cork granulate. The cork allows this textile to insulate up to 50% better than common soft shell fabrics, while still retaining high breathability.



MC#: 0149-02

Hook-and-loop fastener which is produced in a solvent-free process. This material does not have a polyurethane back coating and the homogenous 100% polyester composition is easily recyclable.



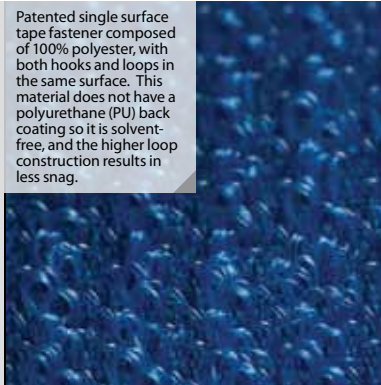
MC#: 0149-03

Hook-and-loop tape with higher anti-static properties than conventional hook-and-loop fasteners. In comparison to conventional fasteners, this material does not have a polyurethane (PU) back coating and is produced in a solvent-free process.



MC#: 0149-04

Patented single surface tape fastener composed of 100% polyester, with both hooks and loops in the same surface. This material does not have a polyurethane (PU) back coating so it is solvent-free, and the higher loop construction results in less snag.



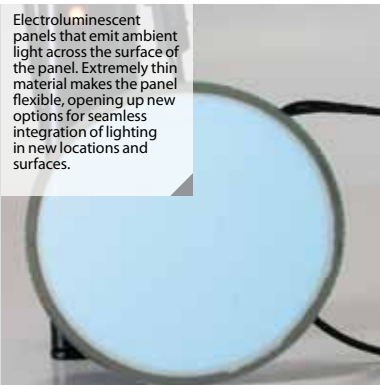
MC#: 0149-05

Extrusion molded hook fastener that is thinner and a higher shear strength compared to conventional hook fasteners. This material is easy to peel off, soft, does not scratch the skin and catches less lint during laundering.



MC#: 4453-02

Electroluminescent panels that emit ambient light across the surface of the panel. Extremely thin material makes the panel flexible, opening up new options for seamless integration of lighting in new locations and surfaces.



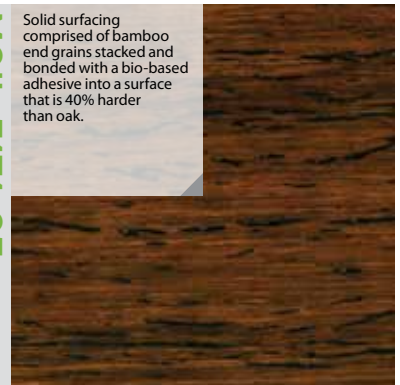
MC#: 4620-04

Traditional handmade Korean Dak-mulberry paper composed of natural fibers. The paper is extremely tough and durable and is the longest lasting acid-free paper on the market.



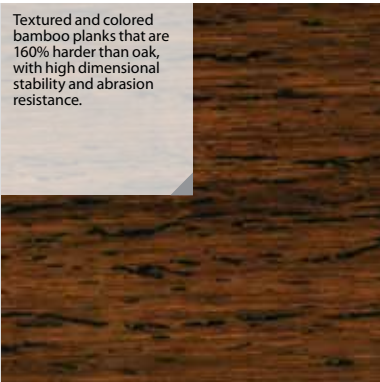
MC#: 5171-05

Solid surfacing comprised of bamboo end grains stacked and bonded with a bio-based adhesive into a surface that is 40% harder than oak.



MC#: 5171-11

Textured and colored bamboo planks that are 160% harder than oak, with high dimensional stability and abrasion resistance.



MC#: 5171-06

Panels of bamboo that have increased hardness and dimensional stability, allowing them to be used in the same applications where hardwoods would traditionally be considered.



MC#: 5171-07

Panels of bamboo that feature the look of hardwood grain, as well as an increased hardness of 160% greater than oak. Processing the bamboo into a fibrous material base allows for a hardwood-like look, different than that of traditional bamboo panels.



JUNE 2013 MATERIALS UPDATE

Material ConneXion®

CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

Ceramic

Natural

Process

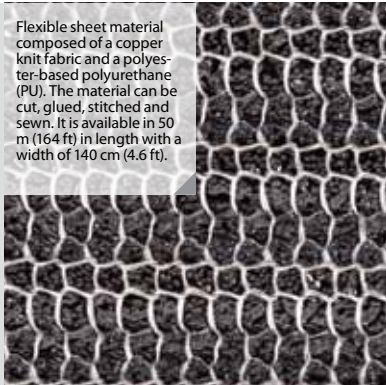
MC#: 5171-10

A plywood construction featuring two types of bamboo board, one of laminated slats the other of pressed fiber and adhesive. The combination improves strength and durability performance, increasing hardness 40% greater than that of oak. ponents and cabinets.



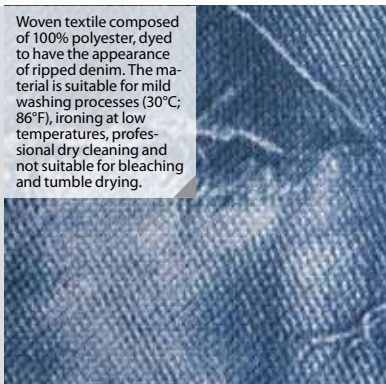
MC#: 5812-08

Flexible sheet material composed of a copper knit fabric and a polyester-based polyurethane (PU). The material can be cut, glued, stitched and sewn. It is available in 50 m (164 ft) in length with a width of 140 cm (4.6 ft).



MC#: 6528-16

Woven textile composed of 100% polyester, dyed to have the appearance of ripped denim. The material is suitable for mild washing processes (30°C; 86°F), ironing at low temperatures, professional dry cleaning and not suitable for bleaching and tumble drying.



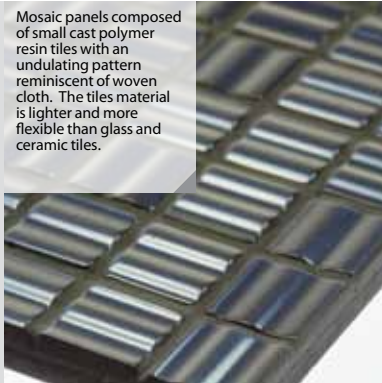
MC#: 5171-08

Flooring boards, comprised of the dense fiber from mature bamboo stalks. By combining bamboo fiber that has been treated with a variety of natural colorations.



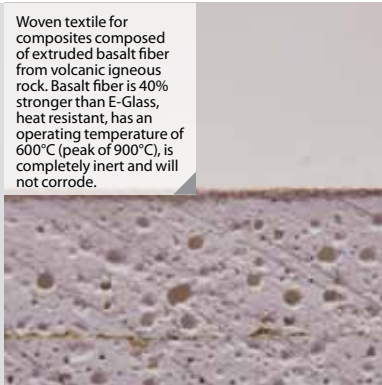
MC#: 5463-10

Mosaic panels composed of small cast polymer resin tiles with an undulating pattern reminiscent of woven cloth. The tiles material is lighter and more flexible than glass and ceramic tiles.



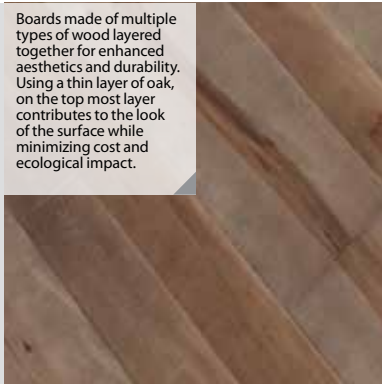
MC#: 6480-10

Woven textile for composites composed of extruded basalt fiber from volcanic igneous rock. Basalt fiber is 40% stronger than E-Glass, heat resistant, has an operating temperature of 600°C (peak of 900°C), is completely inert and will not corrode.



MC#: 6891-02

Boards made of multiple types of wood layered together for enhanced aesthetics and durability. Using a thin layer of oak, on the top most layer contributes to the look of the surface while minimizing cost and ecological impact.



MC#: 5171-09

Solid surfacing that utilizes bamboo's fibrous structure in two formats for a hardwood-like look and greater durability. The material uses a combination of two materials to maximize strength and dimensional stability.



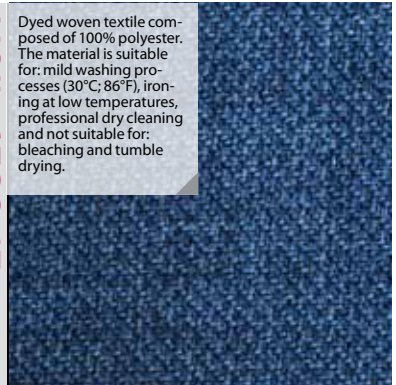
MC#: 5812-07

Flexible sheet material composed of a stainless steel knit fabric and a polyester-based polyurethane (PU). The material can be cut, glued, stitched and sewn. It is available in 50 m (164 ft) in length with a width of 140 cm (4.6 ft).



MC#: 6528-15

Dyed woven textile composed of 100% polyester. The material is suitable for: mild washing processes (30°C; 86°F), ironing at low temperatures, professional dry cleaning and not suitable for: bleaching and tumble drying.



MC#: 7038-02

Durable water and stain repellent finish for textiles that chemically bonds to fibers during application. This finish exceeds apparel industry standards for water repellency and maintains its performance after repeated washings.



JUNE 2013 MATERIALS UPDATE

Material ConneXion®

CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

Ceramic

Natural

Process

MC#: 7038-03

Textile finish that wicks moisture away from the skin to keep the wearer cool and dry, whilst also providing excellent ultra-violet (UV) protection.



MC#: 7038-04

Textiles that contain a wicking polyester fiber to speed up moisture absorption and diffusion. Unlike wicking finishes applied to the fabric after construction, the inherent wicking ability of the fiber ensures consistent performance for the life of the textile.



MC#: 7058-02

High performance warp knit textile composed of 49% polyamide (nylon), 35% polyester and 20% elastane (spandex). The material is elastic, therefore will not snag or run easily, has a high resistance to pilling and is bluesign® certified.



MC#: 7058-03

High performance warp knit textile composed of 48% polyamide (nylon), 37% polyester, and 15% elastane (spandex). The material is elastic, therefore will not snag or run easily, has a high resistance to pilling and is bluesign® certified.



MC#: 7058-04

High performance warp knit textile composed of 85% polyamide (nylon), and 15% elastane (spandex). The material is elastic, therefore will not snag or run easily, has a high resistance to pilling and is bluesign® certified.



MC#: 7058-05

High performance warp knit textile composed of 80% polyamide (nylon), and 20% elastan (spandex). The material is elastic, therefore will not snag or run easily, has a high resistance to pilling and is bluesign® certified.



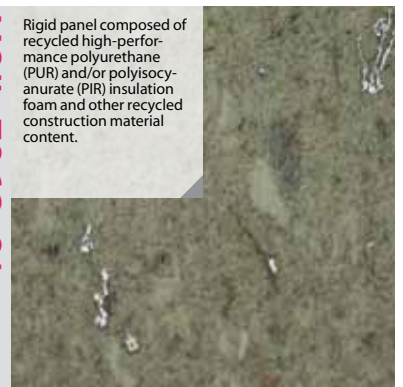
MC#: 7060-01

Medium-density fiberboard (MDF) composed of acetylated wood fibers, with a durability equivalent to old growth teak and greater than oak, even in changing weather conditions.



MC#: 7069-01

Rigid panel composed of recycled high-performance polyurethane (PUR) and/or polyisocyanurate (PIR) insulation foam and other recycled construction material content.



MC#: 7061-01

Inorganic, textured ceramic fiber made from a combination of raw materials used as insulation. The material is fire-resistant and heat insulating and the technology makes it possible to produce this fiber by fusion of alumina and silica.



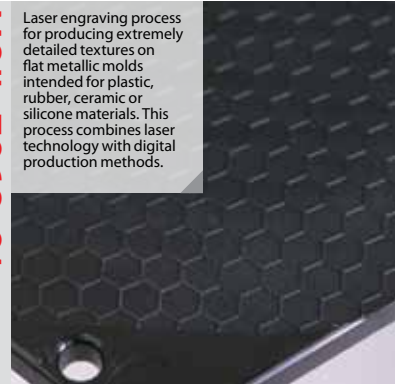
MC#: 7062-01

A light reflective material that utilizes porcelain ceramics in combination with textiles and chrome plating, creating tiles with intricate topography and high shine.



MC#: 7063-01

Laser engraving process for producing extremely detailed textures on flat metallic molds intended for plastic, rubber, ceramic or silicone materials. This process combines laser technology with digital production methods.



JUNE 2013 MATERIALS UPDATE

Material ConneXion®

CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

Ceramic

Natural

Process

MC#: 7063-02

Laser engraving process for producing extremely detailed textures on 3D metallic molds intended for plastic, rubber, ceramic or silicone materials. This technology overcomes limitations of traditional methods which employed a manual workflow.



MC#: 7063-03

Process for the creation of micro-textures on 3D metallic molds or metal items. This process is capable of engraving extremely small and intricate areas whilst maintaining any sharp edges and geometries of the products.



MC#: 7064-01

Metalized paperboard with metallic and mirror like finish. This material does not use a polypropylene film (PP) over the metal layer, which increases ease of recycling.



MC#: 7065-01

Variety of knitted fabrics containing lyocell fiber, a regenerated cellulosic fiber made from bamboo. This material is produced with an organic solvent in a non-viscose spinning process resulting in a stronger bamboo fiber.



MC#: 7066-01

Cast urethane material that uses a proprietary multi-step technology, applying heat, vacuum and pressure to process advanced formula polymers (AFP's), yielding void-free, strong and stable pre-production and short-run production components.



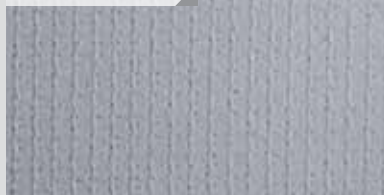
MC#: 7067-01

Thin, flexible, lightweight abrasion resistant sheet that can be used as an alternative to rubber. Composed of thermoplastic polyurethane, this material is UV resistant, recyclable and has superior abrasion resistance to rubber and similar synthetic materials.



MC#: 7068-01

A PET (polyester) knitted fabric coated with PU (polyurethane) having microperforations that promote sound absorption. These microperforations allow for sound waves to pass through the fabric.



MC#: 7068-02

A PET (polyester) knitted fabric coated with PU (polyurethane) for a smooth and uniform surface, offering two degrees of translucency. Clear and opaque PU are used to create textiles with high durability against stain resistance and environmental wear.



MC#: 7070-01

Seaweed-based proprietary dyeing process as an alternative to traditional plastisol or water-based inks.

