

JANUARY 2012 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.

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Material ConneXion®

CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

Ceramic

Natural

Process

MC#: 5588-02

Custom designed woven metal textiles with Trevira CS backing for applications such as wall panels and roman (window) shades woven from metals such as stainless steel, copper, enameled copper, brass, silver and bronze.



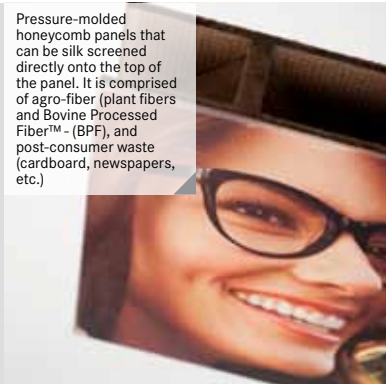
MC#: 6086-02

Carbonized, strand woven Moso bamboo used for flooring, made by braiding and twisting the strands, soaking them in an isocyanate adhesive binder, and compressing the strands of bamboo to create planks. Applications are for flooring and wall paneling.



MC#: 6560-06

Pressure-molded honeycomb panels that can be silk screened directly onto the top of the panel. It is comprised of agro-fiber (plant fibers and Bovine Processed Fiber™ - (BPF), and post-consumer waste (cardboard, newspapers, etc.)



MC#: 4585-02

Hand carved and blasted glass with an applied rust finish. The iron is sprayed onto the carved glass and certain chemicals are then applied to the iron to make it rust. Applications: screens, feature walls, doors, signage, shower screens and balustrades.



MC#: 5842-02

Molded bio-composite forms made from a proprietary soy-based resin system and natural annually renewable fibers like jute, flax - stiffer and stronger than form molded plastic and can create complex shapes not possible with existing wood composites.



MC#: 4585-03

A non-aqueous, liquid concrete-based veneer with aesthetic and tactile properties of solid concrete. This veneer is 0.5 mm (0.019 in) thick and can be spray applied, brushed, rolled or stenciled to any solid surface or shape. Interior and exterior applications.



MC#: 5842-03

Heat pressed bio-composite panels made from a proprietary soy-based resin system and natural annually renewable fibers like jute, flax and kenaf. The panels are dyed with water-based pigments or topped with a veneer. Applications: skateboards and cabinetry.



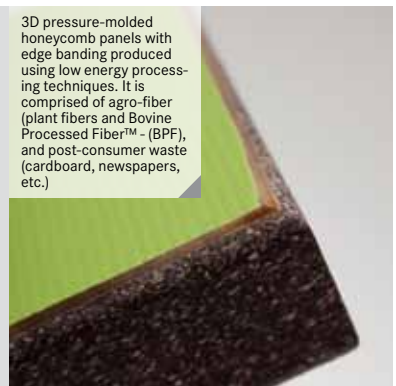
MC#: 6225-07

Hand-braided tubular floor covering that is suitable for indoor and outdoor applications. Composed of 100% polyester, this flooring has high strength and durability because of the material and the way it is braided together.



MC#: 6560-05

3D pressure-molded honeycomb panels with edge banding produced using low energy processing techniques. It is comprised of agro-fiber (plant fibers and Bovine Processed Fiber™ - (BPF), and post-consumer waste (cardboard, newspapers, etc.)



MC#: 6828-04

An embossed stamping process that gives a uniformly textured finish to a stainless steel substrate. This process is primarily used on interior and exterior stainless steel pieces in high-traffic areas.



MC#: 6828-05

An abrasive polished finish process with a stainless steel substrate. This process is primarily used on interior and exterior stainless steel pieces such as mirrors, wall panels, trim, coping and elevator cabs.



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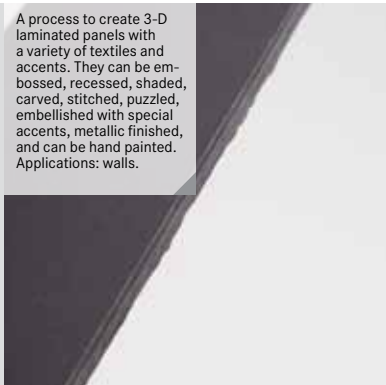
Ceramic

Natural

Process

MC#: 6862-01

A process to create 3-D laminated panels with a variety of textiles and accents. They can be embossed, recessed, shaded, carved, stitched, puzzled, embellished with special accents, metallic finished, and can be hand painted. Applications: walls.



MC#: 6864-02

A soft, closed cell, cross-linked, ethylene copolymer foam that has high temperature resistance and can be recycled as part of a post-industrial recycling program. Used in the automotive and returnable packaging industries.



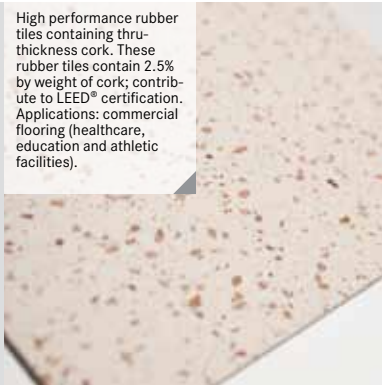
MC#: 6864-05

High-performance, lightweight, closed cell, cross linked foam based on nylon 6 (polyamide 6). Tough, strong and durable with outstanding high temperature tolerance, it has excellent resistance to a range of chemicals and hydrocarbons.



MC#: 6846-02

High performance rubber tiles containing thru-thickness cork. These rubber tiles contain 2.5% by weight of cork; contribute to LEED® certification. Applications: commercial flooring (healthcare, education and athletic facilities).



MC#: 6863-01

A collection of thin 100% natural porcelain tiles that are produced through an environmentally friendly production process. These tiles have a thickness of 4 mm (1/6 in). These tiles are for flooring as well as walling.



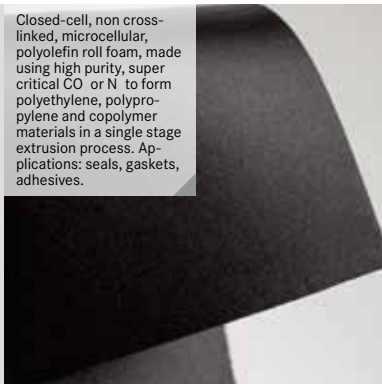
MC#: 6864-03

Closed cell cross-linked Ethylene Vinyl Acetate copolymer foam. This foam is used extensively in the construction industry as expansion jointing material. It has also been used in a wide range of sports & leisure and footwear applications.



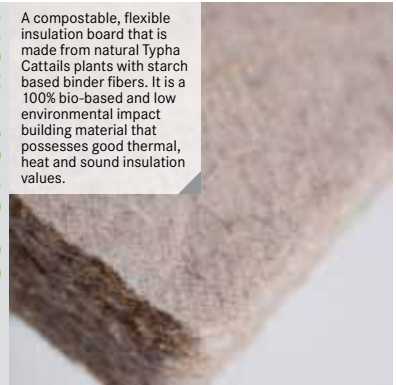
MC#: 6864-06

Closed-cell, non cross-linked, microcellular, polyolefin roll foam, made using high purity, super critical CO₂ or N₂ to form polyethylene, polypropylene and copolymer materials in a single stage extrusion process. Applications: seals, gaskets, adhesives.



MC#: 6848-03

A compostable, flexible insulation board that is made from natural Typha Cattails plants with starch based binder fibers. It is a 100% bio-based and low environmental impact building material that possesses good thermal, heat and sound insulation values.



MC#: 6864-01

Lightweight foam that is a nitrogen-charged, cross-linked, closed cell polyethylene foam that has increased tear strength with low density. This foam is available in any color. This foam can be used for case inserts, medical padding and tool kits.



MC#: 6864-04

High performance, lightweight, closed cell, PVDF (polyvinylidene fluoride) foam based on fluoropolymer Kynar®. Applications include civil and military aerospace industry, general use in industrial applications such as chemical engineering.



MC#: 6865-01

A concrete cladding element that has been modified by inclusion of nanoscale polymer fibers, resulting in strong, lightweight, thin concrete elements with a glossy surface. Applications: inner-outer finishing elements, cladding, and furniture.



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MC#: 6866-01

Printing process that is able to render high quality graphics on plastic films that are not removed by surface scratches. Applications: films applied to mobile phone cases.



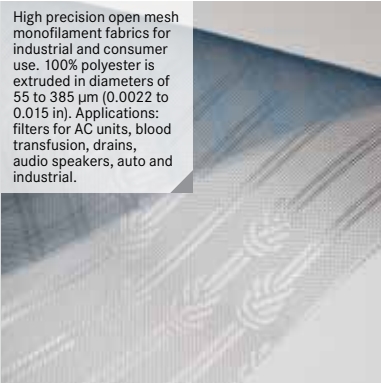
MC#: 6867-01

A disposable packaging and dishware material composed of SiO2 (sand) and polypropylene (PP) that uses less petrochemical based plastics when compared to general PP based containers. Applications: packaging and storing of food.



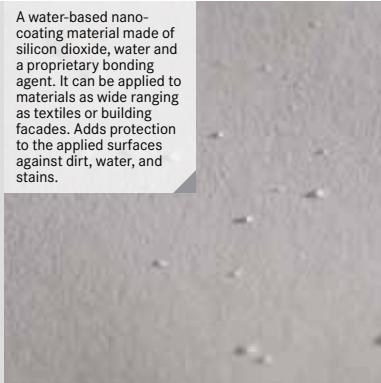
MC#: 6868-01

High precision open mesh monofilament fabrics for industrial and consumer use. 100% polyester is extruded in diameters of 55 to 385 µm (0.0022 to 0.015 in). Applications: filters for AC units, blood transfusion, drains, audio speakers, auto and industrial.



MC#: 6869-01

A water-based nano-coating material made of silicon dioxide, water and a proprietary bonding agent. It can be applied to materials as wide ranging as textiles or building facades. Adds protection to the applied surfaces against dirt, water, and stains.



MC#: 6870-01

Exotic end-grain hardwood flooring that is ten times harder than regular wood flooring. The flooring is composed of 95% hardwood, 4.8% polyethylene, and 0.02% oil finish. Application is for flooring.



MC#: 6872-01

Synthetic leather composed of PVC (face) with 100% polyester microfiber (backing). This fabric has excellent anti-bacterial/anti-microbial resistance. Applications: hospitality, restaurant, healthcare, residential, marine and automotive and residential use.



MC#: 6872-02

Cloth-like textile composed of 100% virgin vinyl (PVC). This durable fabric has excellent anti-bacterial/anti-microbial resistance. Applications: hospitality, restaurant, healthcare, residential, marine, automotive and residential use.



MC#: 6872-03

Ostrich-like synthetic leather composed of 100% virgin vinyl. This durable fabric has anti-bacterial/anti-microbial resistance according to NYS63/ASTM G-21-90. Applications are for healthcare, residential, marine and automotive use.



MC#: 6872-04

Synthetic leather composed of 100% virgin vinyl. This leather has anti-bacterial/anti-microbial resistance according to NYS63/ASTM G-21-90. Applications are for hospitality, restaurant, healthcare, residential, marine and automotive and residential use.



MC#: 6872-05

Synthetic suede leather composed of 100% virgin vinyl. This durable fabric has anti-bacterial/anti-microbial resistance according to NYS63/ASTM G-21-90. Applications are for hospitality, restaurant, healthcare, residential, marine and automotive and residential use.



MC#: 6872-06

Synthetic leather composed of PVC (face) with 100% polyester microfiber (backing). This leather has excellent anti-bacterial/anti-microbial resistance. Applications: hospitality, restaurant, healthcare, residential, marine and automotive and residential use.



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MC#: 6872-07

Suede-like synthetic leather composed of 100% virgin vinyl. It has a colorfastness of 300 hours. Applications are for upholstery.

