

AUGUST 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 over 4,500 materials onsite and online, Material Specialists and Monthly Updates on what's new.

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Need hands-on expertise?

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CATEGORY INDEX

Carbon

Cement

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Process

MC#: 4756-04

Porous mineral based latent heat storage material that has been mixed with paraffin to produce a granulate is able to store and release heat energy as it passes through a specified temperature. Applications: under-floor heating.



MC#: 5000-04

A graphic printing process that transfers cold stamped foil patterns onto a substrate through the use of special adhesives. It is a combination of a printing and laminating process. Paper labels, tube laminates and folding boxes are being produced this way.



MC#: 5000-05

Hot stamping process made up of diffractive, continuous stamping foils differentiated from other conventional techniques by the absence of shim lines in the final pressed foil product. Suitable for use on a wide variety of plastics, especially PVC cards.



MC#: 5000-06

Matte and glossy enamel pigmented stamping foils that offer an extensive and coordinated range of different grades and colors. Suitable for all sectors within the graphic and plastic-processing industry.



MC#: 5000-07

Various aesthetic patterns and foil based textures can be designed by implementing this hot stamping process that employs either a brass, silicone or duplicate (plastic/fiberglass) die. For the generation of highly detailed and textured graphics.



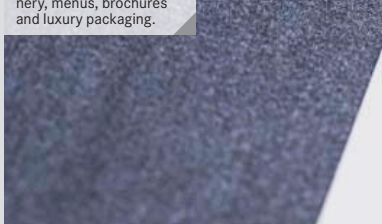
MC#: 5053-05

Water-based finish that turns any paintable surface into a 'dry-erase' surface. It performs as a writable finish like a whiteboard on any new or existing painted surface. Applications are for interior painted surfaces.



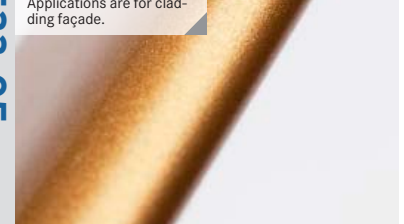
MC#: 5429-09

100% recycled paper with metal-like glittery finish and excellent lightfast properties. This paper is acid free, lignin free, with elemental chlorine-free pulp. Used for envelopes for high quality brochures, stationery, menus, brochures and luxury packaging.



MC#: 5533-05

High performance durable pre-painted aluminum with good bending adhesion and paint elasticity, maintaining color and avoids cracks during bending from flat to curved through its chrome-free, pre-treatment process. Applications are for cladding façade.



MC#: 5580-04

Thin closed-cell PE foam that reduces footfall and other impact noise on hardwood or tile floors. It is lightweight and isolates sound vibrations and impact noises. Used in flooring for hotel rooms, conference rooms and townhomes/condominiums.



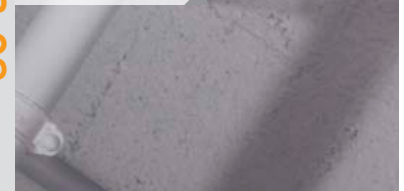
MC#: 5580-05

Underlayment padding designed to reduce impact noise on high-rise concrete construction. It is easily affixed directly to concrete subfloors without adhesives or nails. This material used for the floor construction of housing and residential structures.



MC#: 5712-09

Porcelain tile comprising 50% feldspar, 40% clay, 10% sand, designed to emulate marble. It has excellent strength and stain, chemical, deep abrasion, thermal shock and frost resistance. It complies with ISO 10545 for water absorption (<1%). For flooring.



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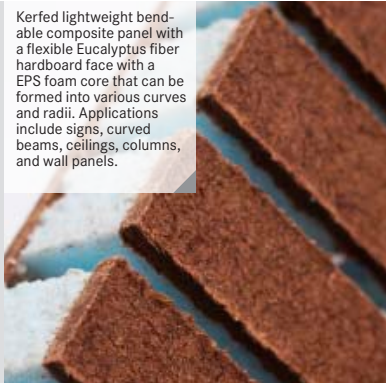
Ceramic

Natural

Process

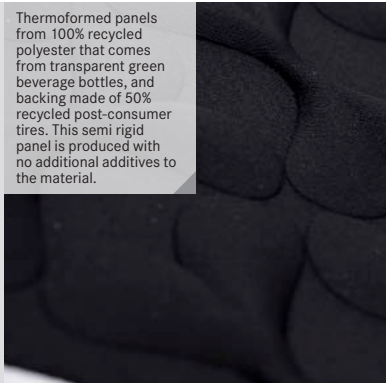
MC#: 6026-04

Kerfed lightweight bendable composite panel with a flexible Eucalyptus fiber hardboard face with a EPS foam core that can be formed into various curves and radii. Applications include signs, curved beams, ceilings, columns, and wall panels.



MC#: 6174-11

Thermoformed panels from 100% recycled polyester that comes from transparent green beverage bottles, and backing made of 50% recycled post-consumer tires. This semi rigid panel is produced with no additional additives to the material.



MC#: 6472-05

A UV-curable alternative to foil board laminating and hot foil stamping. This alternative to Mirafoil® (MC# 6472-02) has a lighter shade and prints clearer over darker colors. Applications are for packaging including folding cartons, labels, direct mail, and POP displays.



MC#: 5945-02

Non-woven elastomer fabric composed of a transversely elastic core layer and two outer layers of fleece. This combination creates a flexible, breathable, and elastic composite without the need of an adhesive. Applications: adhesive tape.



MC#: 6027-04

PVC free high performance flooring made with a combination of styrene-butadiene-rubber (SBR) and cork. The cork is from FSC certified sources, containing at least 25% recycled material. Applications are for commercial flooring.



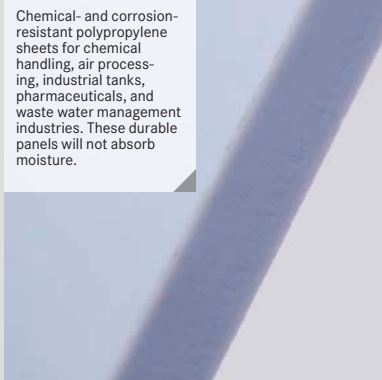
MC#: 6470-02

Fiberboard produced using nutshells and sunflower waste. The nutshells and sunflowers form the low and medium density fiberboard; 94% agricultural waste, 6% isocyanate binder. Applications are for furniture, interior, wall ceiling, and decorative surfaces.



MC#: 6773-16

Chemical- and corrosion-resistant polypropylene sheets for chemical handling, air processing, industrial tanks, pharmaceuticals, and waste water management industries. These durable panels will not absorb moisture.



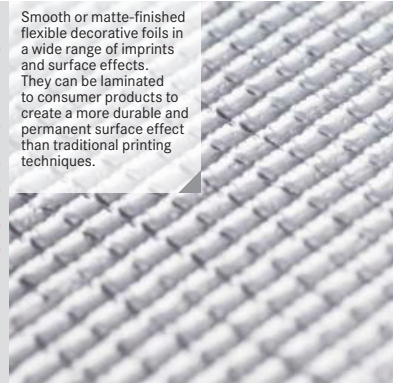
MC#: 6026-03

Low-environmental impact, bendable panels that can be used for numerous types of radius applications. They are composed of a hard-board face panel and a 'kerfed' particleboard core. Applications are for walls, ceilings, reception areas.



MC#: 6166-03

Smooth or matte-finished flexible decorative foils in a wide range of imprints and surface effects. They can be laminated to consumer products to create a more durable and permanent surface effect than traditional printing techniques.



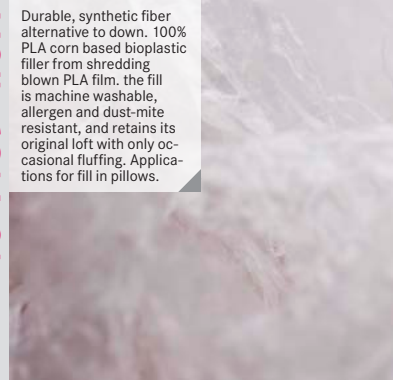
MC # 6472-04

A silver UV-curable alternative to foil board laminating and hot foil stamping. This low cost alternative to Mirafoil® (MC# 6472-02) has more pigment giving a matte finish. Applications are for packaging; folding cartons, labels, direct mail, and POP displays.



MC#: 6814-01

Durable, synthetic fiber alternative to down. 100% PLA corn based bioplastic filler from shredding blown PLA film. The fill is machine washable, allergen and dust-mite resistant, and retains its original loft with only occasional fluffing. Applications for fill in pillows.



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MC#: 6815-01

Carbon negative bio-composite thermal walling material made from hemp, lime and water. This building material is 'carbon negative' because the growing and harvesting the hemp sequesters more carbon dioxide than is generated during block manufacturing.



MC#: 6815-02

Nontoxic, non-irritant, building and construction insulation material from hemp and flax. An alternative to conventional building insulation such as glass fiber or mineral wool. Applications are for insulation.



MC#: 6817-01

Pre-finished wood veneers composed of a top natural wood layer backed with phenolic impregnated kraft paper. Possible uses are table tops, walls, cabinet doors, store fixture displays, exhibit manufacturing, wood furniture, POP displays, and columns.



MC#: 6818-01

Aluminum or stainless steel panel systems laminated to aluminum or kraft paper honeycomb core material. They have butt-glazing capabilities, excellent deflection resistance, are lightweight and can be bent in irregular shapes. Applications are for building exteriors.



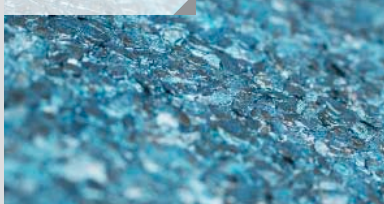
MC#: 6816-01

Lightweight, 3-layer, 100% polypropylene panel with a central formed structure sandwiched between two smooth exterior sheets. The geometry of the core structural sheet provides exceptional rigidity in all directions. Current applications are for packaging.



MC#: 6819-01

Wallcoverings composed of crushed cork that has been dyed and laminated onto paper backing. Available in a standard roll size of 36 in (914 mm) and in silver, gold, black, and peach. Applications are for residential and commercial interiors.



MC#: 6819-02

"PVC-free" wall covering of polyester with 31% post-consumer recycled content. The highly breathable surface increases resistance to mold and mildew in high humidity environments. For wall coverings in hospitality, retail, and residential areas.



MC#: 6819-03

Wallcoverings composed of recycled polyester fabric finished with EverGreen, a water based biodegradable and zero VOC coating. Custom designs and digital printing available with eco-friendly UV digital inks. Applications: residential and commercial interiors.



MC#: 6820-01

Recycled, de-vulcanized rubber. The process of vulcanization was developed for automotive tires and made rubber more stable by cross-linking sulfur bonds. Applications are for rubber products.



MC#: 6821-01

Cellulose acetate film for print-lamination made from sustainable, GM-free wood pulp. It can be laminated, printed, hot foil stamped and glued, with no surface treatment, lowering the cost and packaging process. Used for perfume and cosmetic cartons.



MC#: 6822-01

Wood plastic composite (WPC) composed of 60% HDPE and 40% hard wood cellulose. It is weather-, humidity-, and UV-resistant with no primer necessary. The material is available in planks and is used indoors or outdoors as flooring, panels, doors, and furniture.



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MC#: 6823-01

Polyurethane foam with an integral skin. This water-based, PU foam has an integral skin and can be customized in shape and dimension according to the client's needs. Applications are for automotive and furniture.



MC# 6823-02

Polyurethane foam with varying densities for different applications. This PU foam is available as rigid high density foam as an alternative to wood or as low density foam used for insulation. Used for prototypes, pipe supporters, structural panels, and insulation.

