

# APRIL 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.

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## CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

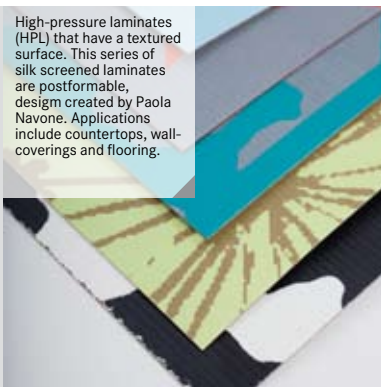
Ceramic

Natural

Process

MC#: 0091-18

High-pressure laminates (HPL) that have a textured surface. This series of silk screened laminates are postformable, design created by Paola Navone. Applications include countertops, wall-coverings and flooring.



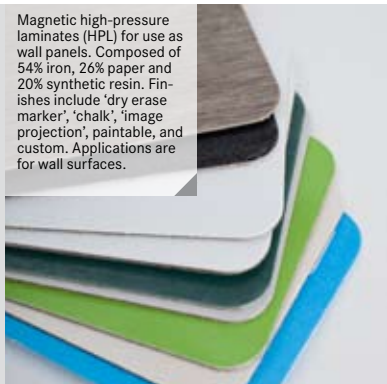
MC#: 0091-19

Multi-laminar decorative solid surfacing panel. It is manufactured by pressing melamine impregnated print and solid color surface papers over phenolic impregnated kraft sheets at pressures over 1000 psi and at temperatures of approximately 300 °F (149 °C).



MC#: 0417-02

Magnetic high-pressure laminates (HPL) for use as wall panels. Composed of 54% iron, 26% paper and 20% synthetic resin. Finishes include 'dry erase marker', 'chalk', 'image projection', paintable, and custom. Applications are for wall surfaces.



MC#: 0440-07

100% polyvinyl chloride (PVC) woven flooring. This lightweight, durable flooring is offered in 7 solid color combinations and 3 striped color combinations of green, yellow, brown, and grey colors. Applications are commercial and residential flooring.



MC#: 3297-10

Vegetable tanned strip leather flooring. 100% hides are cut to size as strips in an attempt to maximize the amount of leather that is useable from the hide. Applications are for residential commercial flooring, wall coverings, and wrapping furniture.



MC#: 4828-03

Laminate made from 100% thermoplastic alloy formulated to substitute for fire retardant ABS. This laminate is made of a PVC/acrylic blend with 40%-50% pre-consumer recycled content. Applications are for walls, ceilings, furniture, exhibits, displays and counters.



MC#: 4828-04

100% aluminum laminate that has scratch and chemical resistant properties as well as good abrasion resistance. It comes in 19 different designs that are etched to the surface and is available in a satin or gloss finish. Applications are for wall panels and displays.



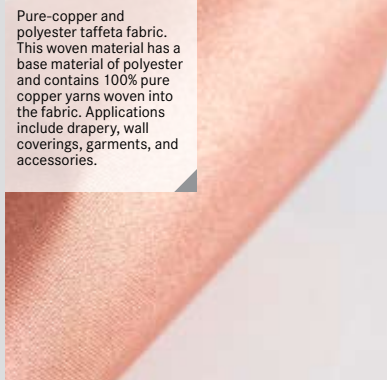
MC#: 6556-02

Structural Insulating Panels (SIPs) made from agricultural waste materials. Available by products that are high in lignin, like cotton burrs, rice hulls, and buckwheat hulls, are used to grow fungal mycelium, the roots of mushrooms. Used as insulation on roofs & walls.



MC#: 6571-10

Pure-copper and polyester taffeta fabric. This woven material has a base material of polyester and contains 100% pure copper yarns woven into the fabric. Applications include drapery, wall coverings, garments, and accessories.



MC#: 6571-11

Ultra-soft radio frequency (RF) shielding fabric. This lightweight, stretchable is composed of 90% cotton and 10% silver. Applications are for protective, apparel, and grounding devices that shield from power line, computer, microwave, radar, and TV radiation.



MC#: 6571-12

Skin-safe radio frequency (RF) shielding mesh fabric. This mesh fabric consists of 55% silver and 45% nylon. Commercial applications currently include bedding, garments, and window treatments.



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MC#: 6571-13

Ultra lightweight silver-coated mesh fabric with superior resistivity and shielding effectiveness. This air permeable fabric, consisting of nylon and silver, has a conductive surface and good shielding effectiveness to lower static discharge or radio frequency signals.



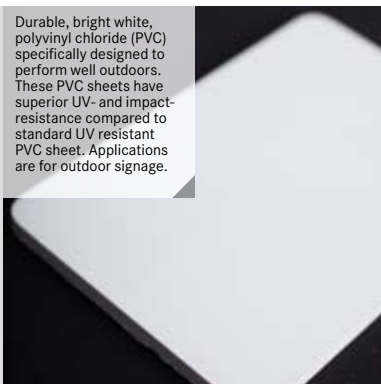
MC#: 6722-02

Fully compostable plastic netting. It is 100% compostable, complying with DIN EN 13422 testing for compostability under practice-relevant conditions. Applications include packaging, shower body puffs, and decorative items.



MC#: 6773-08

Durable, bright white, polyvinyl chloride (PVC) specifically designed to perform well outdoors. These PVC sheets have superior UV- and impact-resistance compared to standard UV resistant PVC sheet. Applications are for outdoor signage.



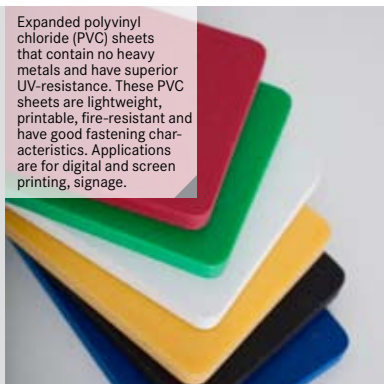
MC#: 6773-09

Hard polypropylene (PP) sheets that meet the standards of the food preparation industry. These PP sheets are dishwasher safe, moisture-, bacteria-, and odor-resistant. Applications are for cutting boards, food preparation, food processing and manufacturing.



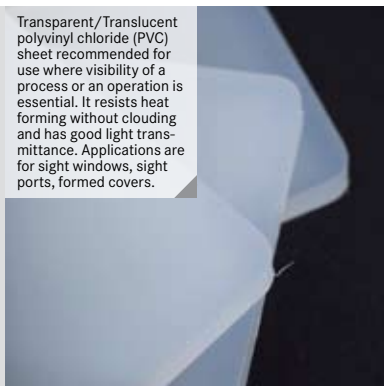
MC#: 6773-07

Expanded polyvinyl chloride (PVC) sheets that contain no heavy metals and have superior UV-resistance. These PVC sheets are lightweight, printable, fire-resistant and have good fastening characteristics. Applications are for digital and screen printing, signage.



MC#: 6773-10

Transparent/Translucent polyvinyl chloride (PVC) sheet recommended for use where visibility of a process or an operation is essential. It resists heat forming without clouding and has good light transmittance. Applications are for sight windows, sight ports, formed covers.



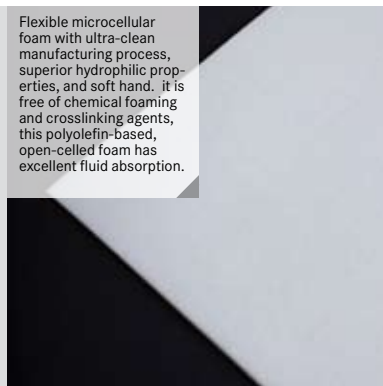
MC#: 6773-11

Chlorinated polyvinyl chloride (CPVC) sheet recommended for self-supporting constructions with high temperature exposure. The CPVC is resistant to chemicals, high heat and corrosion. Applications are for plating tanks, stripping tanks, electrical cabinets.



MC # 6774-06

Flexible microcellular foam with ultra-clean manufacturing process, superior hydrophilic properties, and soft hand. It is free of chemical foaming and crosslinking agents, this polyolefin-based, open-celled foam has excellent fluid absorption.



MC#: 6774-07

Closed microcellular foam manufactured with low-outgassing foaming technology. This polyolefin-based foam has a smoother, flatter surface than typical closed-cell foam. Applications include cushioning, healthcare, and industrial foams.



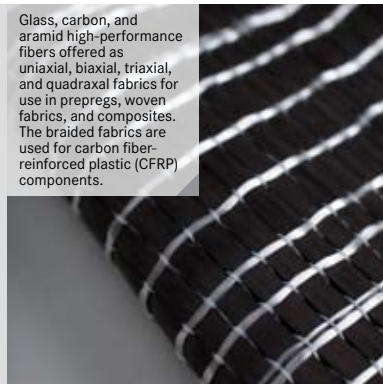
MC#: 6779-01

100% recyclable photovoltaic solar panel. These panels consist of photo-reactive materials made from conductive polymers and organic nano-engineered materials. Applications are for portable battery chargers, tents and backpacks, generators, and carports.



MC#: 6780-01

Glass, carbon, and aramid high-performance fibers offered as uniaxial, biaxial, triaxial, and quadraxial fabrics for use in preregs, woven fabrics, and composites. The braided fabrics are used for carbon fiber-reinforced plastic (CFRP) components.



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MC#: 6780-02

High-performance non-woven fabric made from carbon fibers (PAN base). It has a binder that is styrene-soluble and waterproof, enabling it to be bonded easily to surfaces. It is used as substrates in the electrodes of electrochemical cells and as acid protection.



MC#: 6780-03

Unidirectional and multi-axial reinforcement fabrics made from carbon, glass and aramid fibers that are processed into composite material components. The fabrics are lightweight and compatible with different resin systems.



MC#: 6781-01

Durable ceramic-like roofing material made from soil and carbon. This rigid, microporous inorganic material is generated by carbonizing mineral rich soil at a temperature of more than 1100°C (2012°F). Applications are roofing tiles, wall panels, frames, lamps, vases.



MC#: 6782-01

Handmade paper made of 100% Gaur droppings and other recycled cellulose fibers. The droppings are collected from Chiangmai. Applications are for paper products (notebooks, photo albums, gift bags, storage boxes, and greeting cards).



MC#: 6782-02

Handmade paper made from rhinoceros dung. This paper, formed with rhino droppings collected on night safaris in Thailand, is biodegradable, compostable, nontoxic, recyclable, printable and sound-absorbing. Applications include stationary, notebook covers.



MC#: 6782-03

Handmade paper made from pony dung. The dung is dried in the sun and goes through a cleaning and sterilization process. Applications are for stationery, packaging, greeting cards, and other paper products.



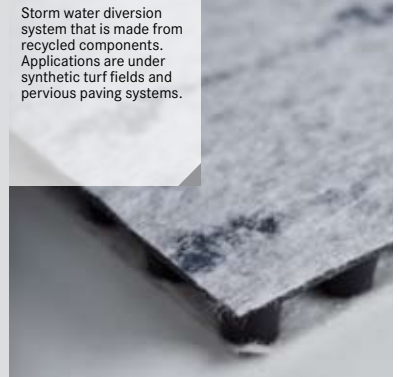
MC#: 6782-04

Paper made from the processing of hippopotamus dung pulp collected on night safaris in Thailand. Applications include journals, note boxes, greeting cards, picture frames, photo albums, and small storage boxes.



MC#: 6783-01

Storm water diversion system that is made from recycled components. Applications are under synthetic turf fields and pervious paving systems.



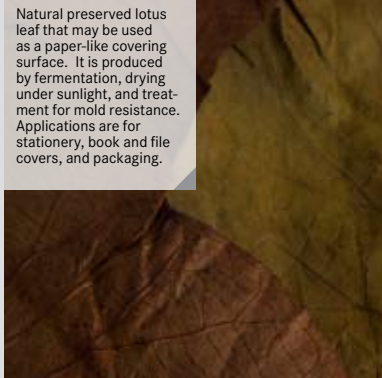
MC#: 6783-02

Poured, porous pavement that allows for effective drainage of water. This pourable slightly cushioning surface is comprised of ground up recycled rubber tires held together by an elastomeric binder. The surface is suitable for sidewalks, driveways, play areas and forecourts.



MC#: 6784-01

Natural preserved lotus leaf that may be used as a paper-like covering surface. It is produced by fermentation, drying under sunlight, and treatment for mold resistance. Applications are for stationery, book and file covers, and packaging.



MC#: 6785-01

These lightweight concrete blocks consist of 50% Portland cement and 50% fly ash which is a byproduct from burning pulverized coal in electric power generating plants. Applications are for exterior and interior wall or partition.



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MC#: 6786-01

This printing process produces high-resolution imagery onto 100% woven polyester, PVC coated wall coverings. Applications are for commercial and residential wallpaper and banners.



MC#: 6787-01

Handmade, decorative veneer composed of 100% banana fibers. These decorative veneers are a product of integrated farming in Martinique. Applications are for interior fittings, furnishings and decoration.



MC#: 6788-01

Cushioning polyurethane foam that is based upon non-food vegetable castor-oil polyol. Applications are for furniture and automotive seat cushions, pillows and mattresses, carpet underlay, filtration, gaskets, and chemical remediation.

