MARCH 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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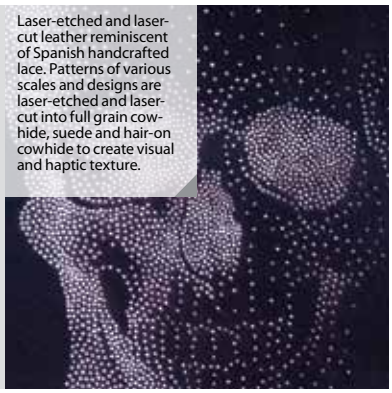
MC#: 0047-03

Full grain aniline-dyed calfskin and cow hide leather converted into strips and woven together. The tanning process is mostly water based, limiting or eliminating emissions of volatile organic compounds (VOCs).

MC#: 0047-04

Laser-etched and laser-cut leather reminiscent of Spanish handcrafted lace. Patterns of various scales and designs are laser-etched and laser-cut into full grain cowhide, suede and hair-on cowhide to create visual and haptic texture.



MC#: 0047-05

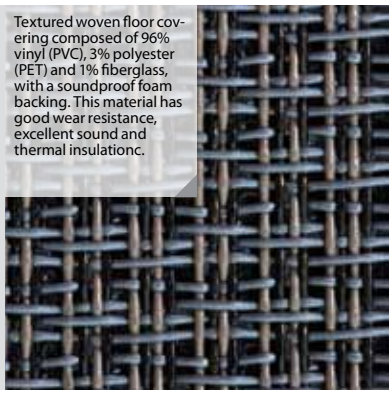
European full grain aniline-dyed cowhide leather in bright and neon colors. This material is finished with Crypton®, providing protection against stains, moisture, bacteria and odors and is Greenguard® Certified for Indoor Air Quality.

MC#: 2567-07

UV-protective woven textile composed of 100% acrylic fibers. This material is lightweight, durable, flexible, mold- and mildew-resistant, and fast drying.

MC#: 2567-08

Textured woven floor covering composed of 96% vinyl (PVC), 3% polyester (PET) and 1% fiberglass, with a soundproof foam backing. This material has good wear resistance, excellent sound and thermal insulationc.

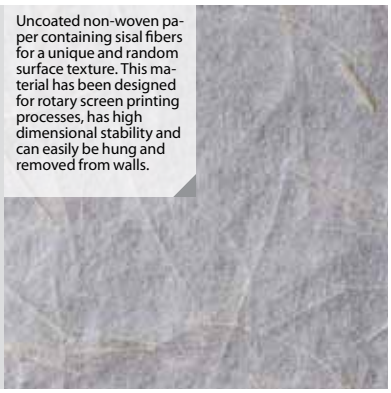


MC#: 3086-02

Uncoated non-woven paper with a woven textile-like surface texture which can be printed. Composed of 65% wood fiber, 20% synthetic fibers and 15% synthetic binders, this paper has high dimension stability and can easily be hung and removed from walls.

MC#: 3086-03

Uncoated non-woven paper containing sisal fibers for a unique and random surface texture. This material has been designed for rotary screen printing processes, has high dimensional stability and can easily be hung and removed from walls.



MC#: 3086-04

Coated non-woven paper with a smooth, flat surface and soft touch on the printing side. This paper has very good printability, high dimensional stability and can easily be hung and removed from walls.

MC#: 3086-05

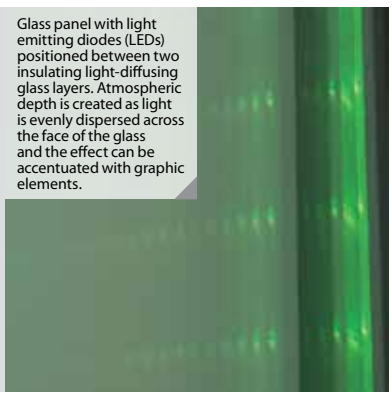
Uncoated nonwoven paper with a pronounced ridged surface texture which can be printed. This material has been designed for rotary screen printing processes, has high dimensional stability and can easily be hung and removed from walls.

MC#: 3086-06

Uncoated nonwoven paper which has been designed for gravure, flexography and surface printing. This material has high dimensional stability and can easily be hung and removed from walls.

MC#: 3639-08

Glass panel with light emitting diodes (LEDs) positioned between two insulating light-diffusing glass layers. Atmospheric depth is created as light is evenly dispersed across the face of the glass and the effect can be accentuated with graphic elements.



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MC#: 5441-02

Security yarns that incorporate uniquely encoded microscopic microtaggants for identification and security purposes. This yarn provides individual security features including ones specific to the time of product manufacture.

MC#: 5666-03

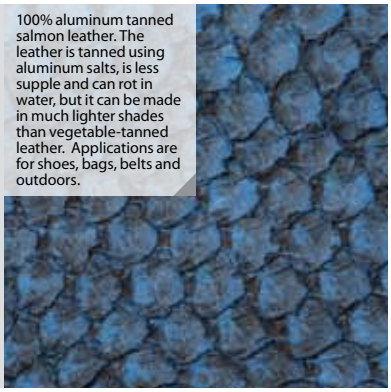
Washable salmon leather from waste taken from the food processing industry. Fish leathers normally require costly and inconvenient dry-cleaning or leather-cleaning, whereas this leather is able to be machine washed at 30°C (86°F) while maintaining its vibrant color.

MC#: 5666-04

Fish leather with a chrome finish. The leather is tanned using chromium sulfate and other salts of chromium, then can be hand-painted with either aluminum or chrome metals. Applications are for shoes, bags, belts and outdoor furniture.

MC#: 5666-05

100% aluminum tanned salmon leather. The leather is tanned using aluminum salts, is less supple and can rot in water, but it can be made in much lighter shades than vegetable-tanned leather. Applications are for shoes, bags, belts and outdoors.

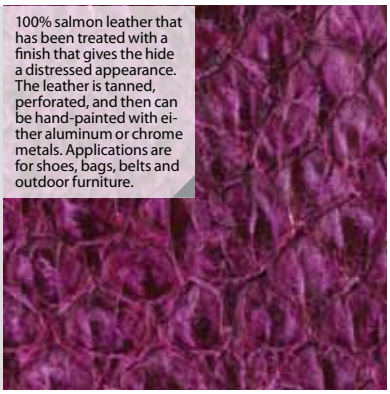


MC#: 5666-06

Fish leather that has been punched with square or round holes composed of 100% salmon, wolffish or perch. This way of manufacturing fish leather with perforations, makes the hides more flexible, lighter in weight and very soft.

MC#: 5666-07

100% salmon leather that has been treated with a finish that gives the hide a distressed appearance. The leather is tanned, perforated, and then can be hand-painted with either aluminum or chrome metals. Applications are for shoes, bags, belts and outdoor furniture.



MC#: 5666-08

Metallic finish leather made from ostrich-leg hides sourced from South Africa. An adhesive is hand-painted onto the leather hides in a specific pattern and a chrome or zirconium metal film (gilding) is pressed on top with a heating press and then ripped off.

MC#: 5960-05

Viscoelastic 100% polyurethane (PU) foam. This foam has high impact resistance and sound absorption, and a soft touch surface. Applications are for apparel linings, as swabs, cosmetic applicators, and earplugs.

MC#: 5960-07

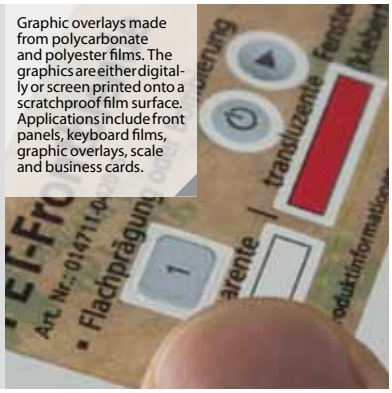
Hydrophilic polyurethane (PU) foam that has a super soft surface that is capable of self-sealing. It is made from 50% polyurethane foam and 50% other proprietary ingredients. Applications include cosmetic foams, cushioning, filter components.

MC#: 5960-08

Viscoelastic latex based polyurethane (PU) foam made from 50% polyurethane, 30-40% latex, and 10-20% other additives. The foam has high impact resistance and is processed through continuous sheet foaming.

MC#: 6006-06

Graphic overlays made from polycarbonate and polyester films. The graphics are either digitally or screen printed onto a scratchproof film surface. Applications include front panels, keyboard films, graphic overlays, scale and business cards.



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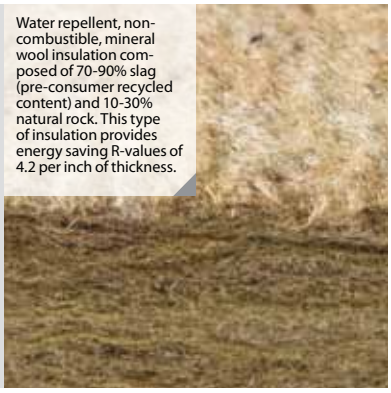
MC#: 6270-02

Water repellent, non-combustible, mineral wool insulation composed of 70-90% slag (pre-consumer recycled content) and 10-30% natural rock. This type of insulation provides energy saving R-values of 4.2 per inch of thickness.

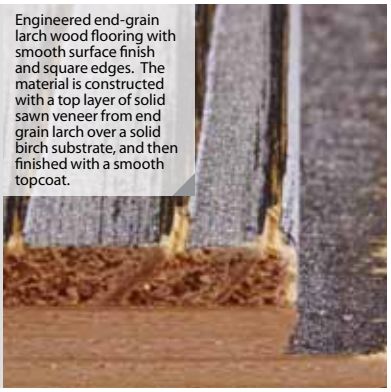


MC#: 6980-07

Thermoset, rigid polyurethane (PU) foam sandwiched between Kerlite® (porcelain) and a polypropylene (PP) sheet. The foam is lightweight, waterproof and has high resistance to compression and cutting.

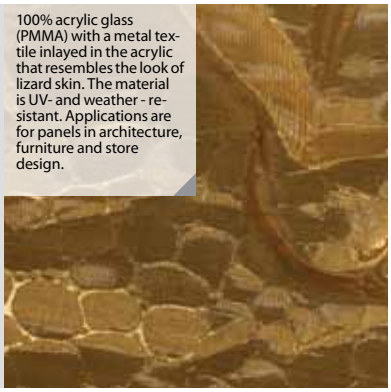
MC#: 6969-10

Engineered end-grain larch wood flooring with smooth surface finish and square edges. The material is constructed with a top layer of solid sawn veneer from end grain larch over a solid birch substrate, and then finished with a smooth topcoat.



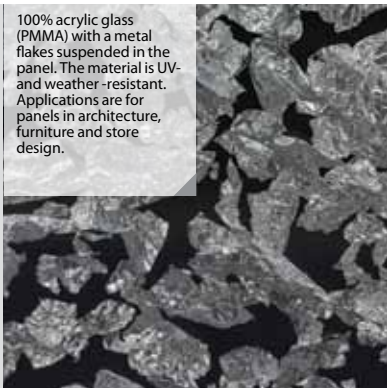
MC#: 7027-01

100% acrylic glass (PMMA) with a metal textile inlayed in the acrylic that resembles the look of lizard skin. The material is UV- and weather - resistant. Applications are for panels in architecture, furniture and store design.



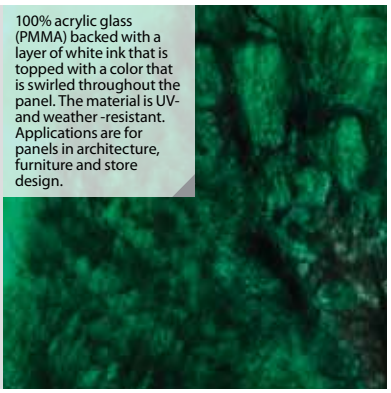
MC#: 7027-02

100% acrylic glass (PMMA) with a metal flakes suspended in the panel. The material is UV- and weather -resistant. Applications are for panels in architecture, furniture and store design.



MC#: 7027-03

100% acrylic glass (PMMA) backed with a layer of white ink that is topped with a color that is swirled throughout the panel. The material is UV- and weather -resistant. Applications are for panels in architecture, furniture and store design.

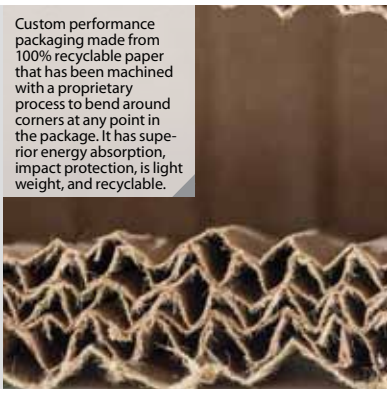


MC#: 7027-04

100% acrylic glass (PMMA) that has white feathers suspended in the panel. The material is UV- and weather -resistant. Applications are for panels in architecture, furniture and store design.

MC#: 7028-01

Custom performance packaging made from 100% recyclable paper that has been machined with a proprietary process to bend around corners at any point in the package. It has superior energy absorption, impact protection, is light weight, and recyclable.

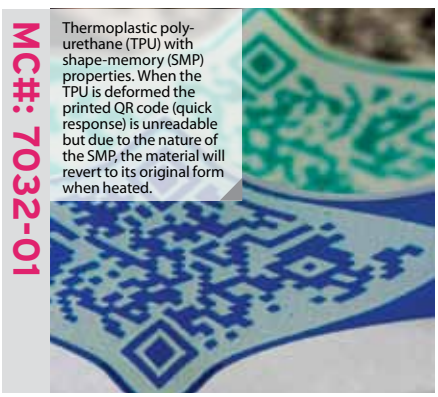


MC#: 7030-01

Acid-resistant mortar consisting of epoxy resin, siliceous aggregates (colored quartz sands), a mixture of organic catalysts (polyamide ammines), and a liquid additive (diisopropilnaftalen).

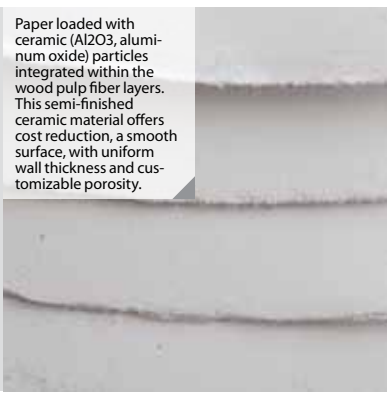
MC#: 7032-01

Thermoplastic polyurethane (TPU) with shape-memory (SMP) properties. When the TPU is deformed the printed QR code (quick response) is unreadable but due to the nature of the SMP, the material will revert to its original form when heated.



MC#: 7033-01

Paper loaded with ceramic (Al_2O_3, aluminum oxide) particles integrated within the wood pulp fiber layers. This semi-finished ceramic material offers cost reduction, a smooth surface, with uniform wall thickness and customizable porosity.



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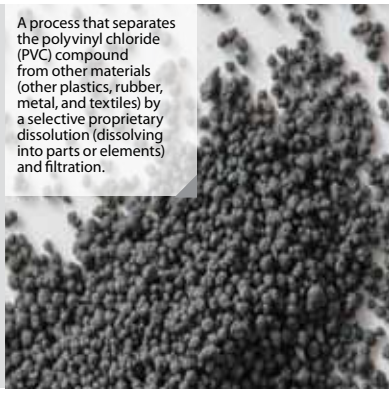
MC#: 7034-01

Lightweight and flexible decorative stone surface material with a non-woven textile backing. Composed of 62% calcium carbonate, 25% silica and 13% modified silicone acrylic polymer, this material is easily applied to curved surfaces.

MC#: 7035-01

A process that separates the polyvinyl chloride (PVC) compound from other materials (other plastics, rubber, metal, and textiles) by a selective proprietary dissolution (dissolving into parts or elements) and filtration.

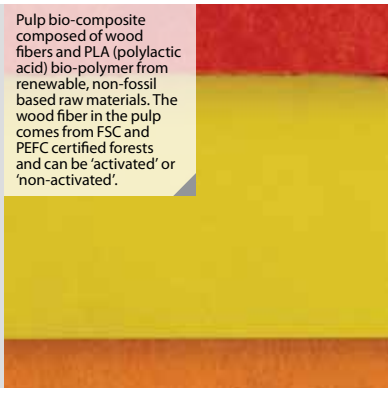


MC#: 7036-01

A xylan based barrier coating for cardboard and paper products that protects against oxygen transmission, grease, printing inks, and scents. Biodegradable, and made from rapidly renewable resources this type of coating can add functionality and safety.

MC#: 7037-01

Pulp bio-composite composed of wood fibers and PLA (polylactic acid) bio-polymer from renewable, non-fossil based raw materials. The wood fiber in the pulp comes from FSC and PEFC certified forests and can be 'activated' or 'non-activated'.

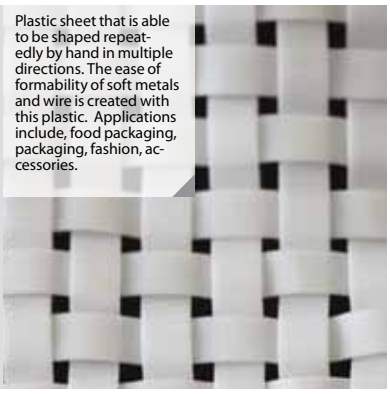


MC#: 7038-01

Odorless, water-based, biodegradable contact insecticide and/or repellent finish for textiles which helps to prevent the spread of insect borne diseases. Unlike other insect repellent textile finishes which are applied by other methods.

MC#: 7039-01

Plastic sheet that is able to be shaped repeatedly by hand in multiple directions. The ease of formability of soft metals and wire is created with this plastic. Applications include, food packaging, packaging, fashion, accessories.



MC#: 7040-01

An aluminum alloy comprised of aluminum (Al) 90%, with the remaining 10% constituting magnesium, silicon, and an intermetallic compound of dialuminum calcium (Al2Ca).

MC#: 7040-02

A magnesium (Mg) alloy, which is the lightest type of structural metal. This alloy is comprised of 90% Mg, 1-9% aluminum, with trace amounts of alloying elements zinc and manganese, as well as an intermetallic compound of dialuminum calcium (Al2Ca).

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