

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

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CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

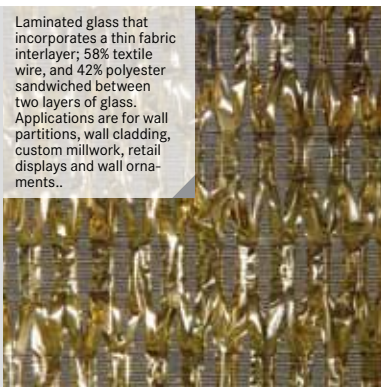
Ceramic

Natural

Process

MC#: 1965-13

Laminated glass that incorporates a thin fabric interlayer; 58% textile wire, and 42% polyester sandwiched between two layers of glass. Applications are for wall partitions, wall cladding, custom millwork, retail displays and wall ornaments.



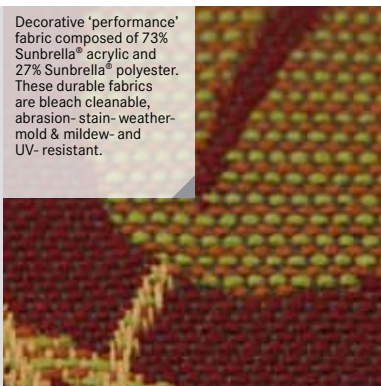
MC#: 1965-14

Laminated glass that incorporates a recycled linen gauze textile sandwiched between two layers of glass. Applications are for wall partitions, wall cladding, custom millwork, retail displays and wall ornaments.



MC#: 2567-05

Decorative 'performance' fabric composed of 73% Sunbrella® acrylic and 27% Sunbrella® polyester. These durable fabrics are bleach cleanable, abrasion-stain-weather-mold & mildew- and UV-resistant.



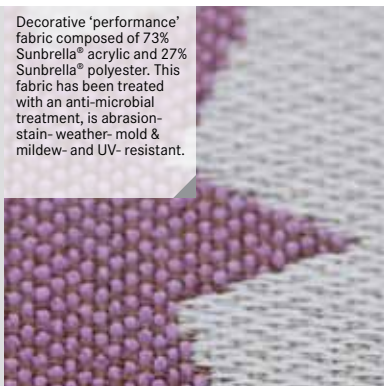
MC#: 2771-07

Perforated porous synthetic paper extruded from polypropylene (PP) resins, inorganic filler and additives. The paper allows outstanding resistance to water, wrinkles, ruffling, flooding, and moisture absorption to be avoided. Applications include bottle labels.



MC#: 2567-04

Decorative 'performance' fabric composed of 73% Sunbrella® acrylic and 27% Sunbrella® polyester. This fabric has been treated with an anti-microbial treatment, is abrasion-stain-weather-mold & mildew- and UV-resistant.



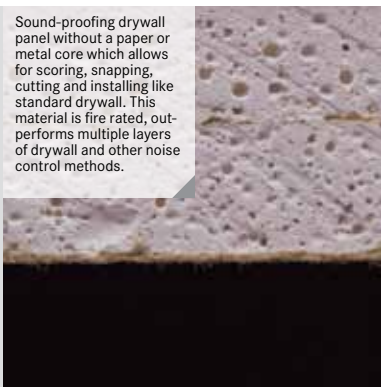
MC#: 2771-06

Tamper-evident label made from synthetic paper extruded from polypropylene (PP) resins, inorganic filler and additives. When the label is peeled, a customized non-sticky printed 'VOID' message will appear on the surface of the product.



MC#: 5580-06

Sound-proofing drywall panel without a paper or metal core which allows for scoring, snapping, cutting and installing like standard drywall. This material is fire rated, outperforms multiple layers of drywall and other noise control methods.



MC#: 5597-15

High-performance upholstery fabrics that mimic the appearance, grain and coloring of natural animal hides. This material is lightweight, tear resistant and easy to clean with an overall workability similar to standard polyvinyl chloride (PVC) coated fabrics.



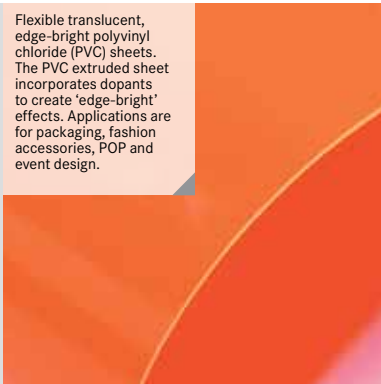
MC#: 5597-16

High-performance upholstery fabric which is flame retardant, antibacterial and resistant to oil, fat, disinfectants, sweat, blood and urine. This material is lightweight, tear resistant and easy to clean.



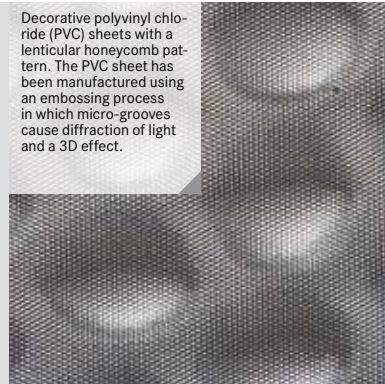
MC#: 5670-07

Flexible translucent, edge-bright polyvinyl chloride (PVC) sheets. The PVC extruded sheet incorporates dopants to create 'edge-bright' effects. Applications are for packaging, fashion accessories, POP and event design.



MC#: 5670-08

Decorative polyvinyl chloride (PVC) sheets with a lenticular honeycomb pattern. The PVC sheet has been manufactured using an embossing process in which micro-grooves cause diffraction of light and a 3D effect.



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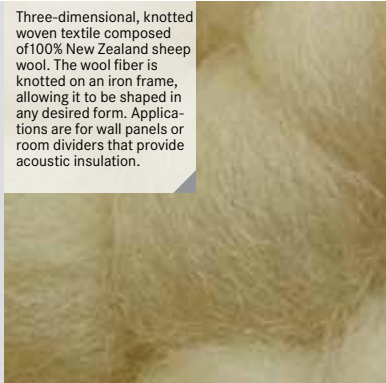
Ceramic

Natural

Process

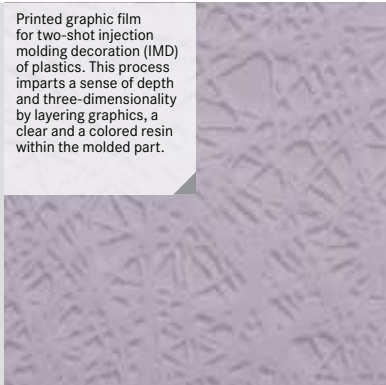
MC#: 6790-03

Three-dimensional, knotted woven textile composed of 100% New Zealand sheep wool. The wool fiber is knotted on an iron frame, allowing it to be shaped in any desired form. Applications are for wall panels or room dividers that provide acoustic insulation.



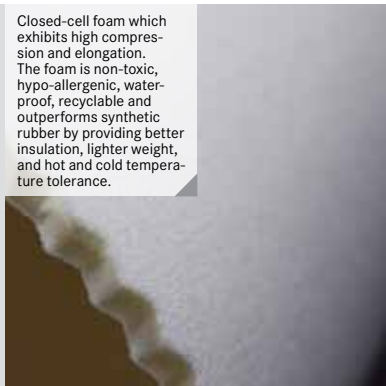
MC#: 6973-06

Printed graphic film for two-shot injection molding decoration (IMD) of plastics. This process imparts a sense of depth and three-dimensionality by layering graphics, a clear and a colored resin within the molded part.



MC#: 6977-01

Closed-cell foam which exhibits high compression and elongation. The foam is non-toxic, hypo-allergenic, water-proof, recyclable and outperforms synthetic rubber by providing better insulation, lighter weight, and hot and cold temperature tolerance.



MC#: 6427-06

A range of embossed metallic foils for paper and paperboard that utilize renewable resources and less material for a similar performing effect to standard metallic foils. This material can be recycled as printed paper in most countries.



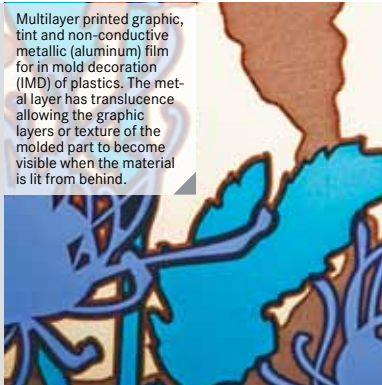
MC#: 6895-02

100% recycled silk fiber that has been recovered from the silk waste disposed of in the silk reeling process, as well as from the cut cocoons (from the silk breeding facilities) that are un-reelable and un-usable.



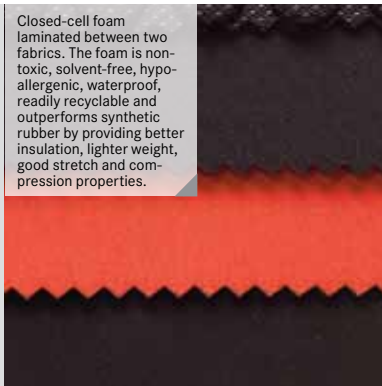
MC#: 6973-07

Multilayer printed graphic, tint and non-conductive metallic (aluminum) film for in mold decoration (IMD) of plastics. The metal layer has translucence allowing the graphic layers or texture of the molded part to become visible when the material is lit from behind.



MC#: 6977-02

Closed-cell foam laminated between two fabrics. The foam is non-toxic, solvent-free, hypo-allergenic, waterproof, readily recyclable and outperforms synthetic rubber by providing better insulation, lighter weight, good stretch and compression properties.



MC#: 6790-02

Dried algae leaves made from Laminaria, commonly known as "kelp." This is the first algae material on the market available in its natural form. Applications are used for indoor wallpaneling and the manufacturing of various forms of artwork.



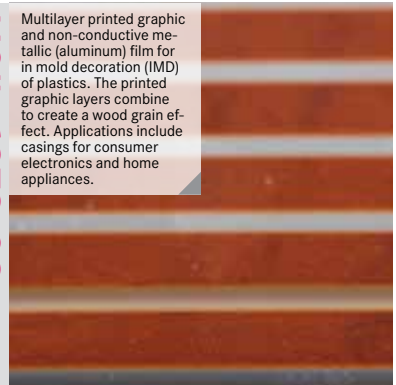
MC#: 6969-09

Engineered flooring that is topped with white oak and finished with a proprietary finishing process. This durable three-layer tongue and groove flooring comprises a central structural layer (that aids efficient gluing) and a durable top oak surface.



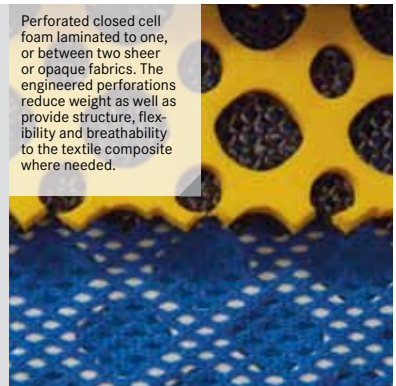
MC#: 6973-08

Multilayer printed graphic and non-conductive metallic (aluminum) film for in mold decoration (IMD) of plastics. The printed graphic layers combine to create a wood grain effect. Applications include casings for consumer electronics and home appliances.



MC#: 6977-03

Perforated closed cell foam laminated to one, or between two sheer or opaque fabrics. The engineered perforations reduce weight as well as provide structure, flexibility and breathability to the textile composite where needed.



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MC#: 6978-01

100% recycled polypropylene (PP) that has been processed to create a fiber that is easily re-molded. This unique processing method is done to the recycled plastic and is a solution to the existing problem of separating composite materials before recycling.



MC#: 6979-01

Decorative woven textile that is 62% cotton, 24% polyurethane, and 14% polyester. These flat weave textiles come in several different color variations and can be customized with a minimum order. Applications are for accessories, upholstery and wallcoverings.



MC#: 6979-02

Decorative polyurethane woven textile that is backed with foam. These flat weave textiles come in several metallic color variations and can be customized with a minimum order. Applications are for accessories, upholstery and wallcoverings.



MC#: 6979-03

Decorative polyurethane woven textile that is backed with foam. These flat weave textiles come in several color variations and can be customized with a minimum order. Applications are for accessories, upholstery and wallcoverings.



MC#: 6979-04

Decorative knitted textile backed with acrylic that is made from 50% cotton and 50% polyester. These machine knitted textiles come in several color variations and can be customized with a minimum order. Applications are for accessories, upholstery and wallcoverings.



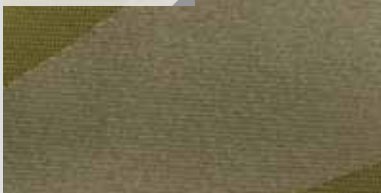
MC#: 6980-01

Solvent free and non-toxic UV-cured powder coatings made from polyester epoxy acrylate. The fast processing time of UV powder coatings significantly reduces thermal exposure which gives the ability to coat a wide range of heat sensitive materials.



MC#: 6981-01

This coating technology combines the high performance spill and stain resistance of Nano-Tex with a safe non-leaching antimicrobial that controls microorganisms that cause odors. It stands up to microbes including: bacteria, fungi and algae.



MC#: 6981-02

High performance textile technology that laminates a durable liquid barrier to a textile treated with Nano-Tex. This 100% antimony-free recyclable polyester barrier is spill and stain resistant. Applications are for textiles in healthcare, and educational environments.



MC#: 6982-01

Handmade mulberry wallpaper from 90% natural fibers and 10% cotton paper. The cotton paper is cut into a pattern and then layered with mulberry fiber. Applications are for residential wallcoverings.



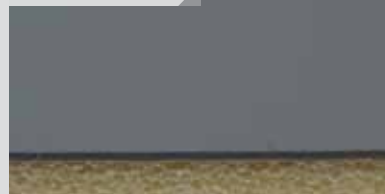
MC#: 6983-01

Antique white oak flooring that has an Ethylene vinyl acetate (EVA) backing for sound absorption and has been coated with either a wax or film. This pre-cut flooring contains no VOC's and has been wire-brushed to create the surface texture.



MC#: 6984-01

Flexible, high-performance film and foam composite with a soft touch clear-coat. This material is chemical- and stain-resistant, meets automotive interior trim standards but is also suitable for outdoor applications as it does not degrade with UV light.



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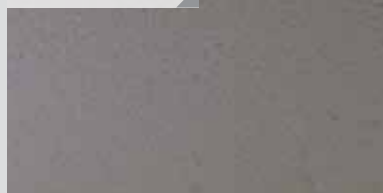
MC#: 6985-01

Decorative embossed wall panel composed of 20% polyurethane (PU) and 80% medium density fiberboard (MDF) with a metallic painted coating. The hard panel has the appearance of a soft creased textile.



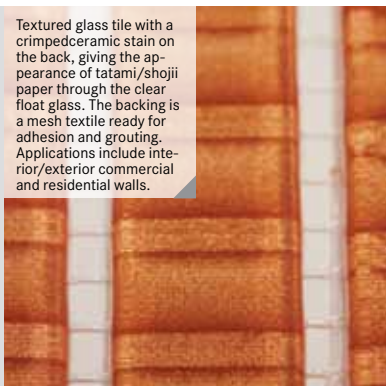
MC#: 6986-01

Hydrophilic polyurethane (PU) foam for recreational applications composed of polyol-isocyanate (PIR) and water. This foam acts as a lightweight system that has excellent absorption, buffering and reabsorbing water after being completely dried out.



MC#: 6987-01

Textured glass tile with a crimped ceramic stain on the back, giving the appearance of tatami/shoji paper through the clear float glass. The backing is a mesh textile ready for adhesion and grouting. Applications include interior/exterior commercial and residential walls.



MC#: 6988-01

Flexible bio-plastic packaging composed of 60% tapioca starch and 40% polyethylene (PE) that is biodegradable, washable and durable. Tapioca is grown organically using native farming methods and a non-genetically modified organism (Non-GMO).



MC#: 6989-01

Magnetic leather panel system for interior applications. This material has a recycled polyvinyl chloride (PVC) support, equipped with magnets with 30 kg (66 lbs) load strength, neoprene mat (optional) and finished with leather hide.



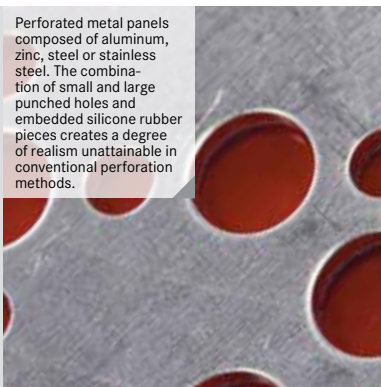
MC#: 6990-01

Hand painted wallcoverings with various textural effects, both geometric and organic in appearance. The paint has no high volatile organic compounds (VOCs), harmful inks or vinyl components and the wallcovering can be easily installed and repaired.



MC#: 6991-01

Perforated metal panels composed of aluminum, zinc, steel or stainless steel. The combination of small and large punched holes and embedded silicone rubber pieces creates a degree of realism unattainable in conventional perforation methods.



MC#: 6992-01

Flexible polyethylene terephthalate (PET) film for in mold decoration (IMD) with a metallic luster and appearance. This film is recyclable, does not block electromagnetic waves, is free of cracks and blanching when formed and there is no possibility of corrosion.



MC#: 4817-07

Encapsulated gel padding material composed of platinum cured silicone (industrial grade). This material is soft, skin-safe, fire resistant, UV stable, waterproof, scratch and stain resistant, and will maintain its durometer when frozen or warmed.

