

JULY 2010 MATERIALS UPDATE

Material ConneXion®

As part of our continuing efforts 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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CATEGORY INDEX

Carbon	Cement
Metal	Glass
Polymer	Ceramic
Natural	Process

MC#: 2499-08

This fine, cellulose based textile fiber is derived from Beechwood and can be spun to thread sizes up to Nm 225. This is the lightest modal fiber available for knits and woven fabrics.



MC#: 3077-06

Chromium-free color shift effect pigments. These pigments are composed of titanium, magnesium fluoride, and aluminum. Unlike traditional color shift pigments, the chromium content in these pigments has been replaced by titanium.



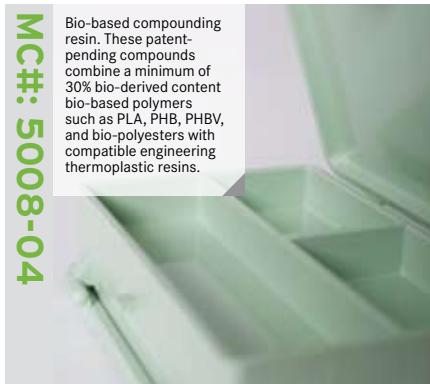
MC#: 3585-04

These vinyl tiles are durable, water-resistant, colorfast and have anti-slip properties. The color shift effect is created by chromium-free color shift effect pigments. Uses are for interior flooring in commercial and residential spaces.



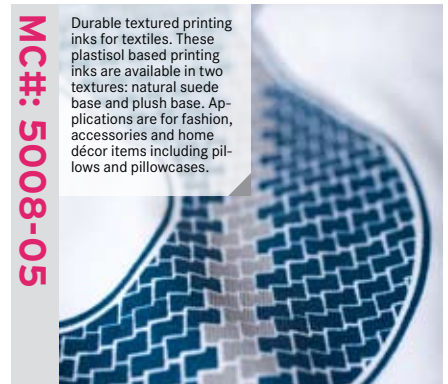
MC#: 5008-04

Bio-based compounding resin. These patent-pending compounds combine a minimum of 30% bio-derived content bio-based polymers such as PLA, PHB, PHBV, and bio-polyesters with compatible engineering thermoplastic resins.



MC#: 5008-05

Durable textured printing inks for textiles. These plastisol based printing inks are available in two textures: natural suede base and plush base. Applications are for fashion, accessories and home décor items including pillows and pillowcases.



MC#: 5021-06

Patterned burn-out effects created in a wide width fabric that can be stretched and used on frames or tension structures. The 100% polyester fabric is translucent with the pattern set against a sheer mesh ground.



MC#: 5247-05

Bonded leather panels made from reconstituted natural leather fibers. The surface is waxed, creating a hand that is soft and smooth to the touch. Applications are for fashion accessories, belts, bags and home furnishing accents.



MC#: 5247-06

Thin, flexible embossed leather films that are composed of reconstituted leather. These sheets comprise 70% leather, 10% latex and 20% polyurethane bonded together to form flexible films that can be laminated to a wide variety of surfaces.



MC#: 5323-05

Fully formable, thermoplastic shape memory polymer (SMP) resin. This reconfigurable polymer can be easily processed into memory shapes using conventional methods in injection molding, thermoforming and extrusion.



MC#: 5498-03

This laminated glass incorporates a polymer interlayer for decorative applications. The interlayer of PVB (polyvinyl butyral) is tough, resilient and dampens sound. Applications are for interior doors, cabinets and wall and ceiling elements.



MC#: 5498-04

Decorative laminated glass. This glass contains a polymer interlayer that can be customized in color and pattern (random, full, scatter gradient). It is UV-resistant and can be used as flooring, partitions, and wall coverings.



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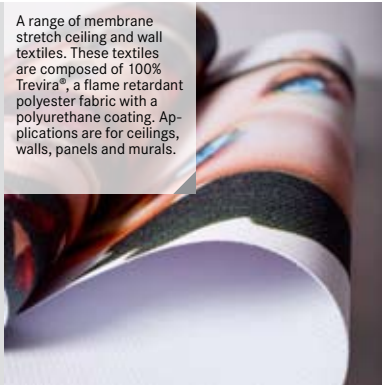
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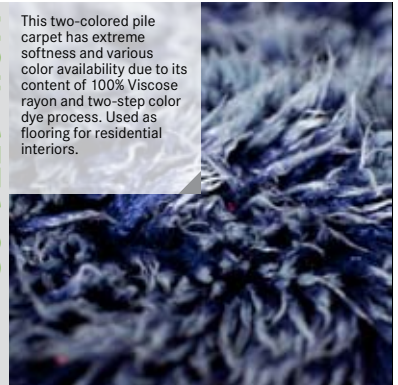
MC#: 6002-06

A range of membrane stretch ceiling and wall textiles. These textiles are composed of 100% Trevira®, a flame retardant polyester fabric with a polyurethane coating. Applications are for ceilings, walls, panels and murals.



MC#: 6576-02

This two-colored pile carpet has extreme softness and various color availability due to its content of 100% Viscose rayon and two-step color dye process. Used as flooring for residential interiors.



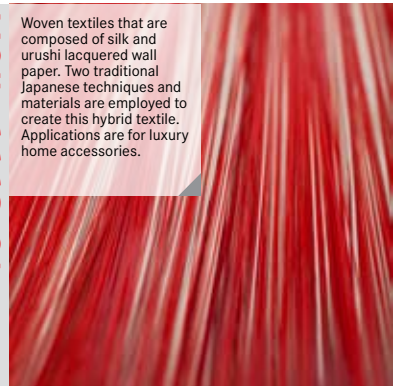
MC#: 6660-01

Laser cut acrylic (PMMA). These decorative panels are laser cut into intricate designs and patterns and the level of transparency is customizable. Patterns, size, materials, colors, texture and thickness can be customized as wall panels.



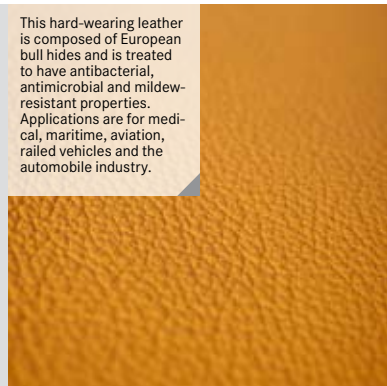
MC#: 6662-01

Woven textiles that are composed of silk and urushi lacquered wall paper. Two traditional Japanese techniques and materials are employed to create this hybrid textile. Applications are for luxury home accessories.



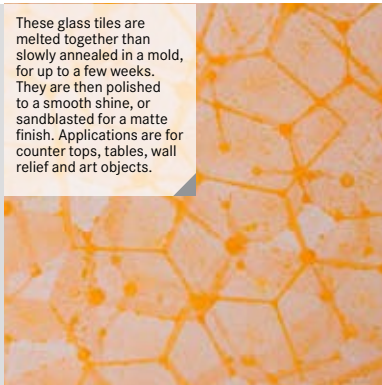
MC#: 6591-02

This hard-wearing leather is composed of European bull hides and is treated to have antibacterial, antimicrobial and mildew-resistant properties. Applications are for medical, maritime, aviation, railed vehicles and the automobile industry.



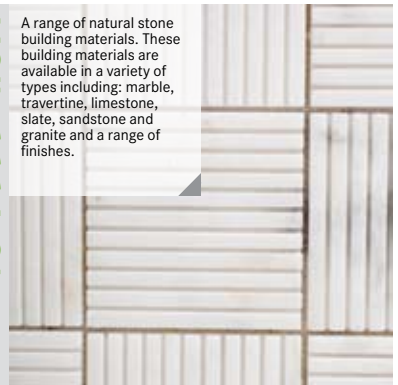
MC#: 6663-01

These glass tiles are melted together than slowly annealed in a mold, for up to a few weeks. They are then polished to a smooth shine, or sandblasted for a matte finish. Applications are for counter tops, tables, wall relief and art objects.



MC#: 6664-01

A range of natural stone building materials. These building materials are available in a variety of types including: marble, travertine, limestone, slate, sandstone and granite and a range of finishes.



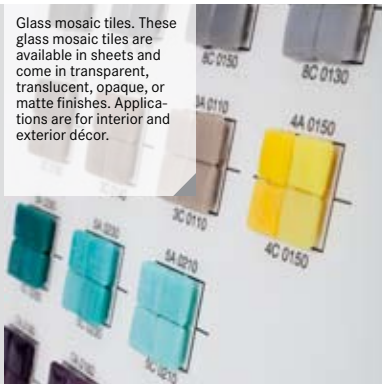
MC#: 6662-02

A range of lacquered fabrics with surface design and texture. These fabrics are composed of silk (40-60%), urushi lacquer coated wash paper (20-30%) and silver (10-30%). Applications are for fashion, accessories and home décor.



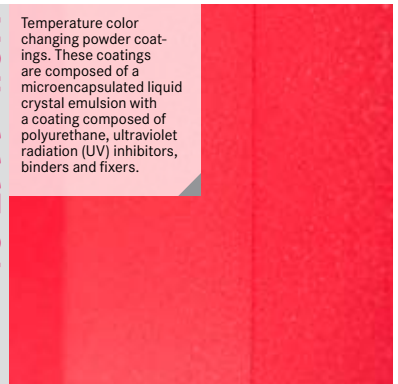
MC#: 6666-01

Glass mosaic tiles. These glass mosaic tiles are available in sheets and come in transparent, translucent, opaque, or matte finishes. Applications are for interior and exterior décor.



MC#: 6667-01

Temperature color changing powder coatings. These coatings are composed of a microencapsulated liquid crystal emulsion with a coating composed of polyurethane, ultraviolet radiation (UV) inhibitors, binders and fixers.



MC#: 6665-01

Direct shrink sleeve application for packaging that incorporates color shift and diffractive effect pigments. This extruded polyester film is used as a film that is shrunk onto products to act as a tamper-evident seal and label.



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MC#: 6667-02

These glow-in-the-dark coatings are composed of polyester and will illuminate in the absence of light. The pigment does not impart any color to the substrate, allowing for photoluminescence in white substrates. Used for signage.



MC#: 6668-01

These textiles are made from non-spun silk worm cocoons, which are stitched by hand or machine, with cotton or polyester thread, into large sheets. The pure silk has a soft web-like structure which can also be laminated.



MC#: 6669-01

Thermoformable high performance rigid panels are composed of coconut fibers and polypropylene (PP). Coconut fiber is used as a replacement for synthetic polyester fibers found in traditional compression-molded composites.



MC#: 6670-01

PLA (polylactic acid) based biopolymer that is suitable for injection molding, thermoforming and blow molding applications. It is FDA compliant as food and microwavable safe containers, insulated ice coolers, and other food packaging items.



MC#: 6671-01

Flooring made from waste palm wood. This 100% Cocos Nucifera (coconut palm wood) is derived from trees at the end of their useful life and can be cut to order. It is suitable for outdoor or indoor, commercial or residential applications.



MC#: 6672-01

This bamboo paper is handmade by villagers in Laos using all natural techniques for growth, harvesting, processing and dyeing. Applications are for printing, letterpress printing, writing, cards, origami and gift wrapping.

