

October **MMU**

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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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 1524-05

Polyurethane elastomer gel with low inter-molecular cross-linkage. Minimal bonding between the chains of molecules creates a highly fluid rheology similar to a liquid, while retaining the shape.



MC 2463-10

Synthetic suede fabric that offers a combination of durability, light weight, color vibrancy and printability. This nonwoven synthetic suede is produced without solvents such as toluene and DMF.



MC 3297-11

Decorative panel system that incorporates real hide leather on the surface with a padding core and flexible backing. The panels are acoustically and thermally insulating.



MC 3297-12

Natural cowhide leather with a distressed look and tonal color that accentuates the surface texture.



MC 3297-13

Embossed cow hide leather with a quilted-look diamond pattern. The surface has a unique patterned feel and displays high durability.



MC 3297-14

Cow hide that has been processed to resemble the look and texture of stingray leather. This leather combines modern and craftsman finishing techniques.



MC 3297-15

Full grain cowhide leather that has been finished with a metallic foil detail, creating a "studded" effect.



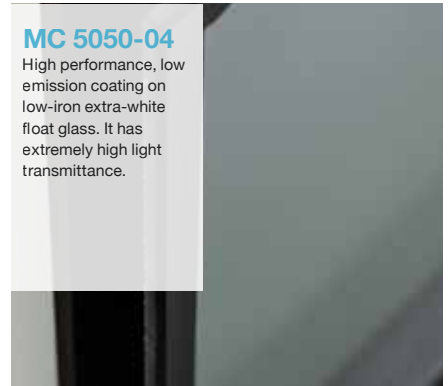
MC 4725-07

A high-pressure laminate panel that combines polyurethane faux-leather backed with a phenolic resin impregnated paper creating a leather-like decorative surface.



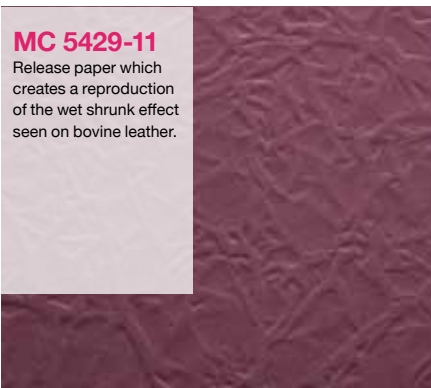
MC 5050-04

High performance, low emission coating on low-iron extra-white float glass. It has extremely high light transmittance.



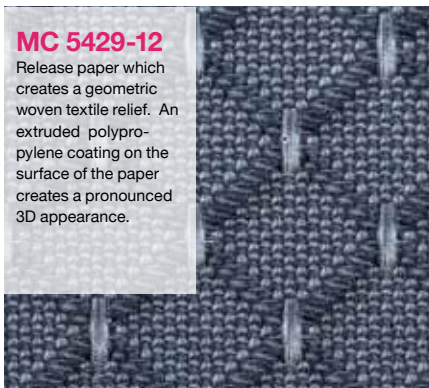
MC 5429-11

Release paper which creates a reproduction of the wet shrunken effect seen on bovine leather.



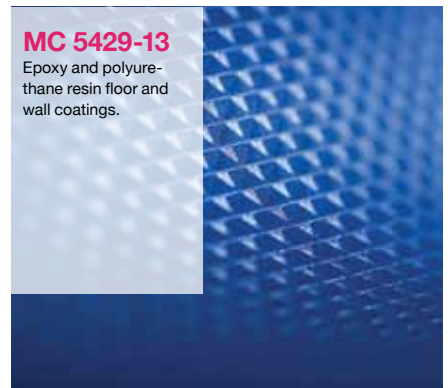
MC 5429-12

Release paper which creates a geometric woven textile relief. An extruded polypropylene coating on the surface of the paper creates a pronounced 3D appearance.



MC 5429-13

Epoxy and polyurethane resin floor and wall coatings.



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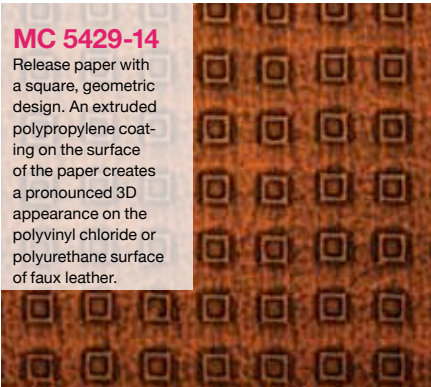
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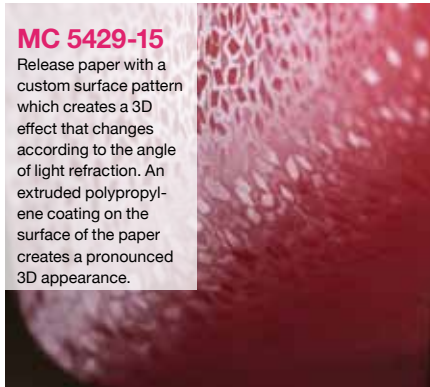
MC 5429-14

Release paper with a square, geometric design. An extruded polypropylene coating on the surface of the paper creates a pronounced 3D appearance on the polyvinyl chloride or polyurethane surface of faux leather.



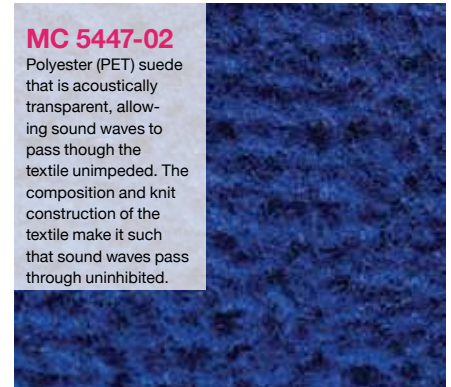
MC 5429-15

Release paper with a custom surface pattern which creates a 3D effect that changes according to the angle of light refraction. An extruded polypropylene coating on the surface of the paper creates a pronounced 3D appearance.



MC 5447-02

Polyester (PET) suede that is acoustically transparent, allowing sound waves to pass through the textile unimpeded. The composition and knit construction of the textile make it such that sound waves pass through uninhibited.



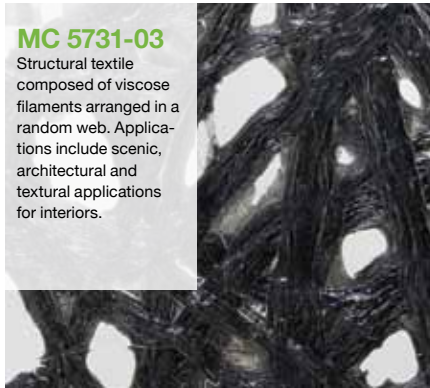
MC 5641-07

A family of engineered composite core products used to create lightweight high strength sandwich structures. It combines fiberglass and closed cell polyurethane (PU) foam as the core and face of the panel.



MC 5731-03

Structural textile composed of viscose filaments arranged in a random web. Applications include scenic, architectural and textural applications for interiors.



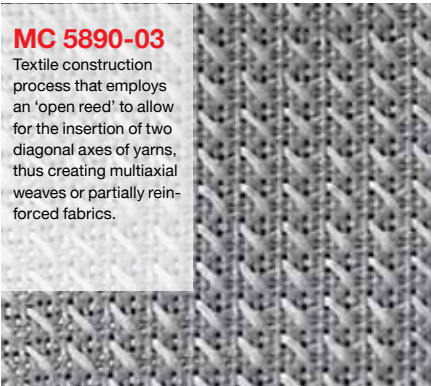
MC 5890-02

Textile construction process that combines weaving and embroidery techniques to create all-over stitched patterns in the fabric surface. Applications include fabrics for upholstery.



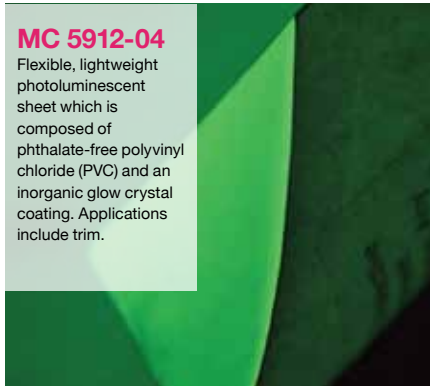
MC 5890-03

Textile construction process that employs an 'open reed' to allow for the insertion of two diagonal axes of yarns, thus creating multiaxial weaves or partially reinforced fabrics.



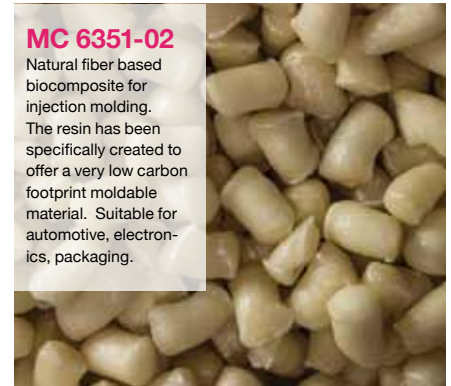
MC 5912-04

Flexible, lightweight photoluminescent sheet which is composed of phthalate-free polyvinyl chloride (PVC) and an inorganic glow crystal coating. Applications include trim.



MC 6351-02

Natural fiber based biocomposite for injection molding. The resin has been specifically created to offer a very low carbon footprint moldable material. Suitable for automotive, electronics, packaging.



MC 6674-02

Flame resistant (FR) textile used for flash fire and electric arc protection. It is soft, breathable, lightweight and composed of 48% FR-modacrylic, 37% lyocell and 15% aramid.



MC 6968-02

Natural fibers and leaves that are combined into a rigid panel that can be used as a decorative veneer. 5% binder is used to agglomerate the materials that include alpine grass, hay flowers, reed and straw.



MC 6968-03

Lightweight, natural fiber composite acoustical panels for interior use. 95% hemp fiber is combined with 5% binder that can be specified as biodegradable.



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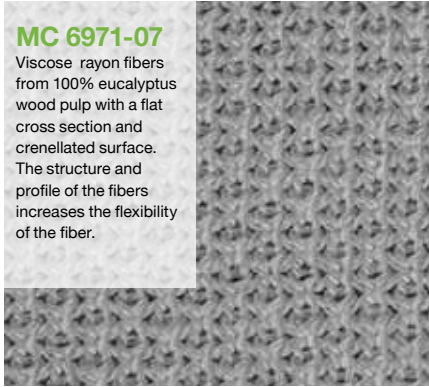
MC 6970-04

Horizontal work surface panels and door blanks that utilize a lightweight core for reduced weight. 4 mm (0.16 in) HDF face panels sandwich a patented milled out core structure.



MC 6971-07

Viscose rayon fibers from 100% eucalyptus wood pulp with a flat cross section and crenellated surface. The structure and profile of the fibers increases the flexibility of the fiber.



MC 6998-02

High durability coated woven fabric that uses a combination of nylon and fabric yarns and creates a worn, 'denim' look on the surface. It is intended as a fabric for backpacks, and all outdoor accessories.



MC 7012-02

Printed reverse coil zipper with nylon teeth. Unlike conventional zippers, whose teeth are on the front, the reverse coils allow for a flat surface which can be printed for decorative emphasis in textile items.



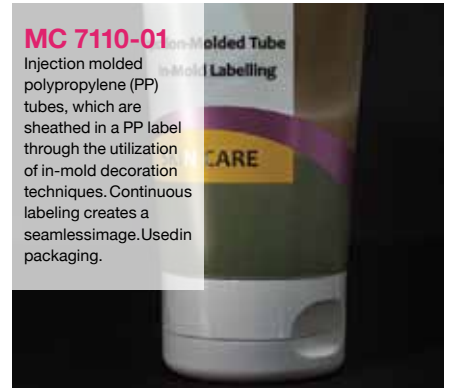
MC 7012-03

Coil zipper that has a durable, waterproof top coating to create a seal between the two zip sides. As the zip closes, the two sides tightly join together over the top of the zip teeth.



MC 7110-01

Injection molded polypropylene (PP) tubes, which are sheathed in a PP label through the utilization of in-mold decoration techniques. Continuous labeling creates a seamless image. Used in packaging.



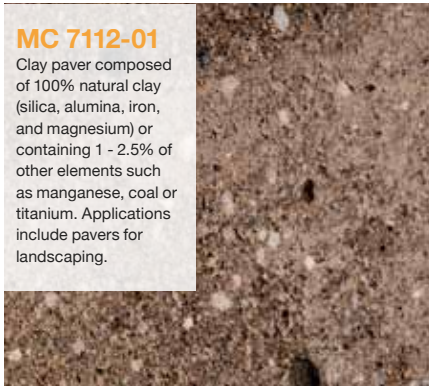
MC 7111-01

Fine lamb leather which is perforated in a fish scale pattern and backed with a contrasting colored woven textile. Applications include apparel and accessories.



MC 7112-01

Clay paver composed of 100% natural clay (silica, alumina, iron, and magnesium) or containing 1 - 2.5% of other elements such as manganese, coal or titanium. Applications include pavers for landscaping.



MC 7112-02

Facing bricks which are composed of 100% natural clay (silica, alumina, iron, and magnesium) or containing 1 - 2.5% of other elements such as manganese, coal or titanium. Applications include interior walls for residential buildings.



MC 7112-03

Facing bricks which are composed of 100% natural clay. These bricks are regularly uniform in size, having a lower size tolerance of ± 1 mm, compared with the ASTM standard of ± 3.2 mm. Applications include interior walls for residential buildings.



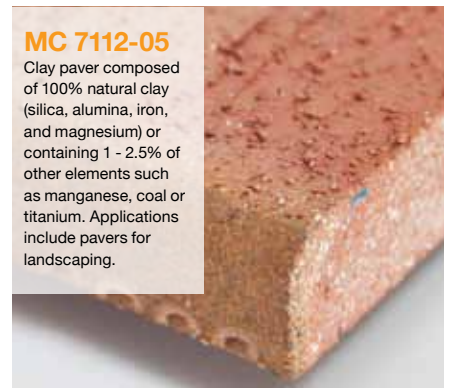
MC 7112-04

Facing bricks which are composed of 100% natural clay and feature vertical striations along the face of the brick. Applications include interior and exterior walls for residential buildings.



MC 7112-05

Clay paver composed of 100% natural clay (silica, alumina, iron, and magnesium) or containing 1 - 2.5% of other elements such as manganese, coal or titanium. Applications include pavers for landscaping.



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MC 7113-01

Impact modified polystyrene (PS) from 100% post-consumer sources. This material is offered in a toy-safe grade, it is the first recycled polymer to receive this certification.



MC 7113-02

Polypropylene (PP) copolymer resin from 100% post-consumer automotive sources that retains high performance attributes. This polymer successfully replaces virgin product with greater consistency of performance.



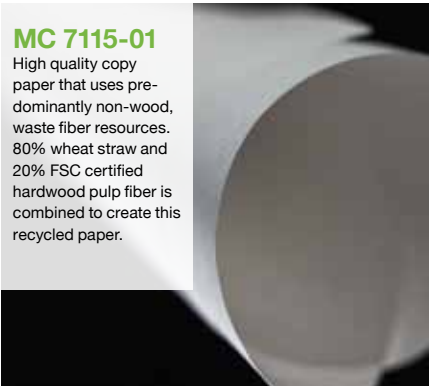
MC 7114-01

Plywood mosaic tile that is composed of waste wood from discarded skateboards. The slightly curved 7-ply pieces retain the graphics, holes and scuffs of the boards, offering a vibrant colored mosaic construction.



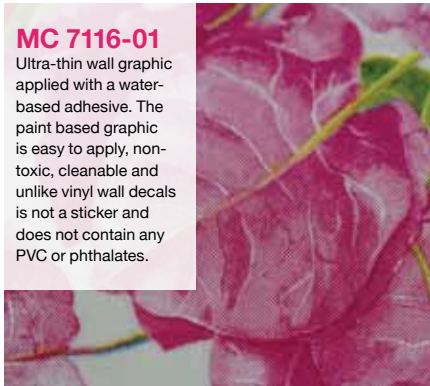
MC 7115-01

High quality copy paper that uses predominantly non-wood, waste fiber resources. 80% wheat straw and 20% FSC certified hardwood pulp fiber is combined to create this recycled paper.



MC 7116-01

Ultra-thin wall graphic applied with a water-based adhesive. The paint based graphic is easy to apply, non-toxic, cleanable and unlike vinyl wall decals is not a sticker and does not contain any PVC or phthalates.



MC 7117-01

Safety strip edge protection for stairways composed of 90% aluminum, 6% silicon carbide and 4% PVC (polyvinyl chloride). It is self-luminating and has a high abrasion and slip resistance.



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