

# NOVEMBER 09 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#:** 0247-06

These etched designs are applied to stainless steel using a photolithographic bead-blasting system. This system eliminates the use of acids and other chemicals typically used to etch metal.



**MC#:** 1737-03

A urethane plastic that shatters like glass on impact. The material is water clear, and once it is fully cured it mimics glass fractures or crumbles into shards that look like glass. It is currently used to produce special effects for movie productions.



**MC#:** 4763-02

Woven tape made from polyester yarn and seven silver-plated copper strands. These conductive strands 'float' in wavy lines along the tape to allow elasticity in the tape without breaking the metal strands.



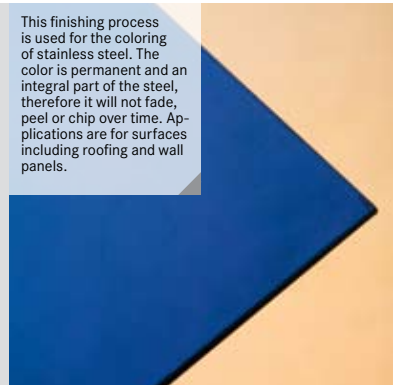
**MC#:** 4796-02

This durable, exterior grade cladding tile is a unique galvanized coating on steel that consists of 11% aluminum, 3% magnesium and 86% zinc. It comprises a four-sided interlocking design and concealed nailing strip with 2 holes.



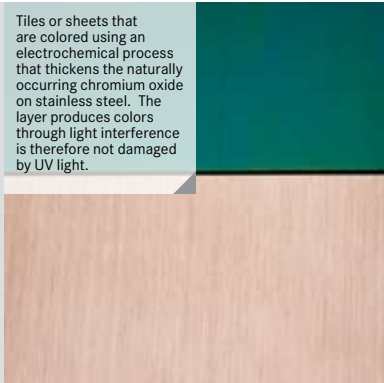
**MC#:** 4796-03

This finishing process is used for the coloring of stainless steel. The color is permanent and an integral part of the steel, therefore it will not fade, peel or chip over time. Applications are for surfaces including roofing and wall panels.



**MC#:** 4796-04

Tiles or sheets that are colored using an electrochemical process that thickens the naturally occurring chromium oxide on stainless steel. The layer produces colors through light interference is therefore not damaged by UV light.



**MC#:** 5086-07

Foamed silicone based sheets used for vibration damping and shock absorption for electronics packaging. This 100% silicone sheet works like a gel/rubber and performs without the need for extra distribution space for shock dispersion.



**MC#:** 5305-11

A non-combustible fire-proofing panel made primarily from mineral materials with a white core and decorative melamine resin facings on both sides. It complies with the requirements of European and US building codes.



**MC#:** 5400-03

Highly abrasion-resistant, polyurethane (PU) faux leather that recycles 99% of all water and raw materials used in production. The textiles are used for residential and contract upholstery.



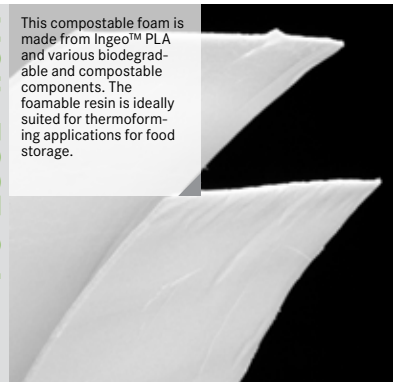
**MC#:** 5609-05

Small pieces of teak wood are adhered to a plywood back to create 3D and shadow surface effects. Teak wood is strong and naturally resistant to insects and weather. Applications are for interior decoration, wall coverings and room dividers.



**MC#:** 5827-04

This compostable foam is made from Ingeo™ PLA and various biodegradable and compostable components. The foamable resin is ideally suited for thermoforming applications for food storage.



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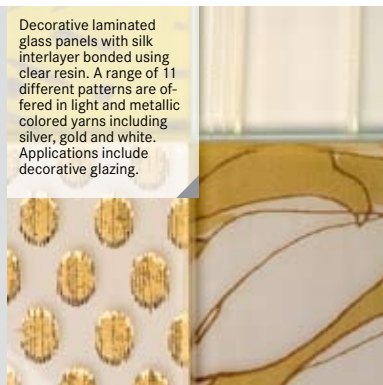
**MC#:** 5858-02

This range of shear stiffening foams can be incorporated directly into garments and accessories to shield the wearer against high impact. They are washable, and maintain properties at high and low temperatures.



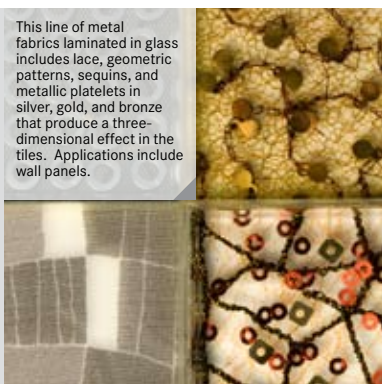
**MC#:** 6111-02

Decorative laminated glass panels with silk interlayer bonded using clear resin. A range of 11 different patterns are offered in light and metallic colored yarns including silver, gold and white. Applications include decorative glazing.



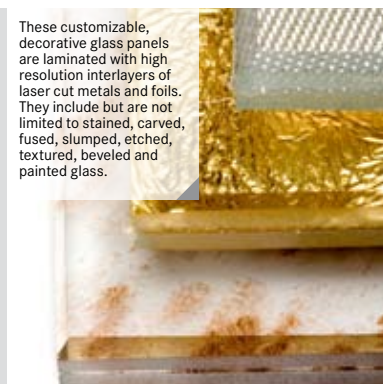
**MC#:** 6111-04

This line of metal fabrics laminated in glass includes lace, geometric patterns, sequins, and metallic platelets in silver, gold, and bronze that produce a three-dimensional effect in the tiles. Applications include wall panels.



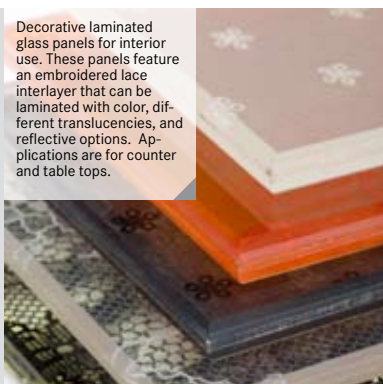
**MC#:** 6111-05

These customizable, decorative glass panels are laminated with high resolution interlayers of laser cut metals and foils. They include but are not limited to stained, carved, fused, slumped, etched, textured, beveled and painted glass.



**MC#:** 6111-03

Decorative laminated glass panels for interior use. These panels feature an embroidered lace interlayer that can be laminated with color, different translucencies, and reflective options. Applications are for counter and table tops.



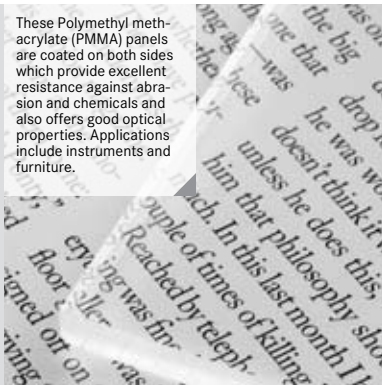
**MC#:** 6111-06

Decorative glass with a Japanese washi paper interlayer. A range of 16 different patterns are offered in a range of natural colors including black, brown, beige and white. Applications include interior decorative glazing.



**MC#:** 6199-02

These Polymethyl methacrylate (PMMA) panels are coated on both sides which provide excellent resistance against abrasion and chemicals and also offers good optical properties. Applications include instruments and furniture.



**MC#:** 6498-02

Hand-crafted decorative items created from the leaves of the Talipot Palm tree. It is one of the largest palm trees, cultivated throughout South East Asia, with a height of up to 25 m (82 ft) and with leaves up to 5 m (16 ft) in diameter.



**MC#:** 6541-01

Decorative, CNC routed MDF panels. These panels are made from hardwoods and urea formaldehyde resins with low VOC versions, E1 and E0 available. Applications include furniture, wall and door panels, and cabinets.



**MC#:** 6542-01

A process for the creation of three-dimensional crinkle patterns on any fabric. Applications are for interior design as drapes and upholstery, for fashion as apparel and decorative accessories.



**MC#:** 6543-01

Pre-weathered zinc with a surface that is very similar to natural patina. This protective layer provides maintenance-free surfaces and is responsible for the high corrosion resistance of the titanium zinc. Applications are for roofing applications.



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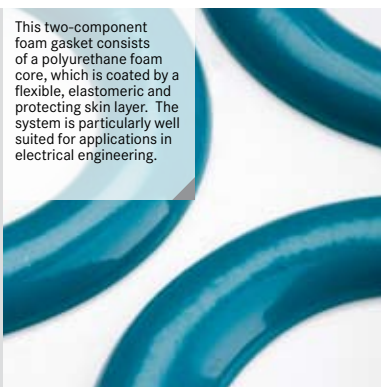
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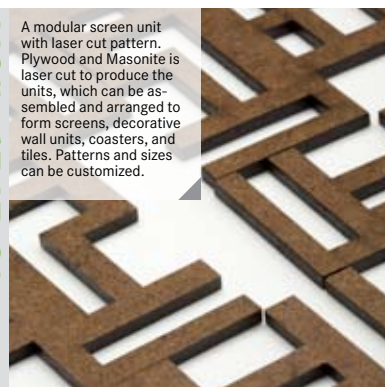
**MC#:** 6544-01

This two-component foam gasket consists of a polyurethane foam core, which is coated by a flexible, elastomeric and protecting skin layer. The system is particularly well suited for applications in electrical engineering.



**MC#:** 6545-01

A modular screen unit with laser cut pattern. Plywood and Masonite is laser cut to produce the units, which can be assembled and arranged to form screens, decorative wall units, coasters, and tiles. Patterns and sizes can be customized.



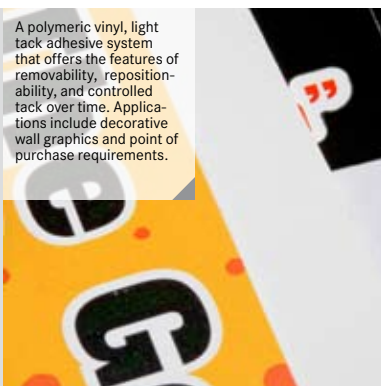
**MC#:** 6546-01

This nonwoven felting material is naturally water resistant and self-extinguishing. It passes Class A ASTM E84 flame spread classification for dyed felts and Class B ASTM E84 flame spread for undyed felts. Used for upholstery.



**MC#:** 6547-01

A polymeric vinyl, light tack adhesive system that offers the features of removability, repositionability, and controlled tack over time. Applications include decorative wall graphics and point of purchase requirements.



**MC#:** 6548-01

A yarn made from naturally grown Kapok fiber and hand-picked cotton. Kapok is harvested from the fiber surrounding the seeds of the tropical kapok tree, also known as the ceiba tree and nearly five times as light as cotton.



**MC#:** 6548-02

This fiber is composed of 50% recycled cotton and 50% virgin cotton fiber. This material meets the requirements for Oeko-Tex Standard 1000 and is tested for harmful substances according to Oeko-Tex 100 plus standard.



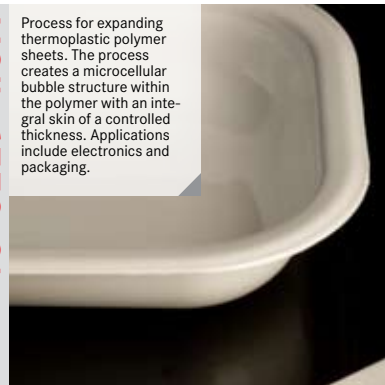
**MC#:** 6549-01

Textiles based on the common stinging nettle fiber which is durable, soft and inherently fire retardant. These stinging nettle fibers are blended (1:3 ratio) with 100% New Zealand wool to create a renewable and biodegradable upholstery.



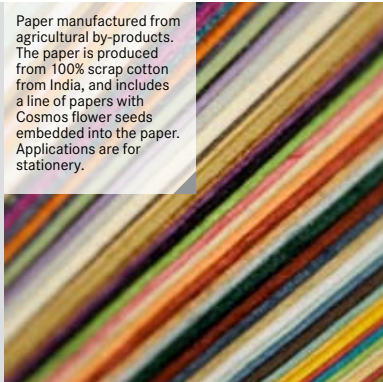
**MC#:** 6550-01

Process for expanding thermoplastic polymer sheets. The process creates a microcellular bubble structure within the polymer with an integral skin of a controlled thickness. Applications include electronics and packaging.



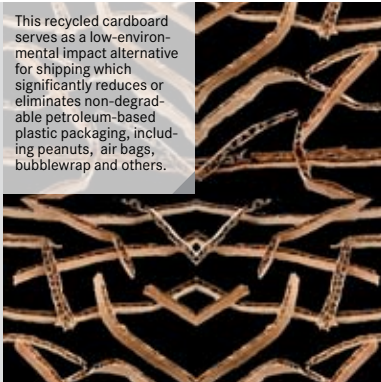
**MC#:** 6551-01

Paper manufactured from agricultural by-products. The paper is produced from 100% scrap cotton from India, and includes a line of papers with Cosmos flower seeds embedded into the paper. Applications are for stationery.



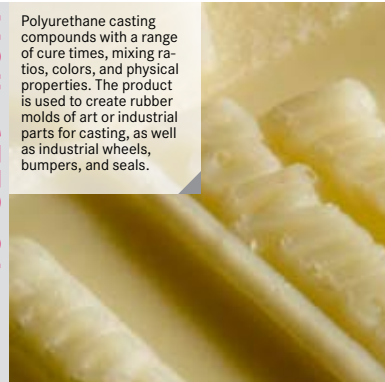
**MC#:** 6552-01

This recycled cardboard serves as a low-environmental impact alternative for shipping which significantly reduces or eliminates non-degradable petroleum-based plastic packaging, including peanuts, air bags, bubblewrap and others.



**MC#:** 6553-01

Polyurethane casting compounds with a range of cure times, mixing ratios, colors, and physical properties. The product is used to create rubber molds of art or industrial parts for casting, as well as industrial wheels, bumpers, and seals.



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MC#: 6554-01

This wear resistant coating is used as an alternative for natural granite. This coating incorporates natural and synthetic stone materials that are bonded with a high quality water-based resin. Used for both interior or exterior applications.



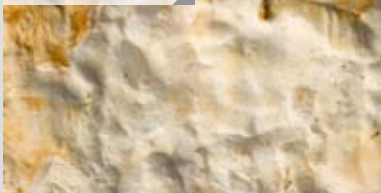
MC#: 6554-02

This is a weather resistant interior or exterior texture coating incorporating natural ceramic sands with a high quality water-based acrylic resin. Applications include areas that require easy-to-apply textures on architectural details.



MC#: 6556-01

Packaging made from agricultural waste materials and produced by living organisms via a low energy process because the material is grown in the dark. It is a replacement for expanded polystyrene for use as a packaging material.



MC#: 6555-01

Polyvinyl alcohol (PVOH or PVA) is blown into a thin film that is hot water soluble and suitable for packaging applications. Dissolution times, strength, stiffness and cosmetic appearance are all variable and offered as different grades of film.

