

SEPTEMBER 2011 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 6,000 materials onsite and online, Material Specialists and Monthly Updates on what's new.

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Andrew H. Dent, PhD

Vice President, Library & Material Research

Material ConneXion®

P +1 212 842 2050

E adent@materialconnexion.com

W www.materialconnexion.com

Chompoonuj Weerakitti

Director, Library & Materials Research

Material ConneXion® Bangkok

P +66 (0) 2 664 8448

E cweerakitti@materialconnexion.com

W www.materialconnexion.com/th

Karsten Bleyemehl

Director, Library & Materials Research

Material ConneXion® Cologne

P +49 (0) 221 99 22 28 - 22

E kbleymehl@materialconnexion.com

W www.materialconnexion.com/de

Sun Ah Kim

Director of Library & Consulting

Material ConneXion® Daegu

P +82 53 740 0033

E sakim@materialconnexion.com

W www.materialconnexion.com/kr

Micol Costi

Director, Library & Materials Research

Material ConneXion® Milano

P +39 02 36553060/36553169

E mcosti@materialconnexion.com

W www.materialconnexion.com/it

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Process

MC#: 2044-04

Construction wall panels with foam cores and resin impregnated skins laminated with drywall paper. These 'curved corner' panels are produced with a patented technology and create smooth, tight radius corners for walls and ceilings.



MC#: 2604-24

Upholstery fabric made of 100% polyurethane with silver-based antimicrobial finish and 100% polyester knit backing. This durable, water resistant and easy clean fabric is used for upholstery, wall covering, footwear, apparel, home furnishings, and handbags.



MC#: 2604-25

Synthetic leather made of 100% polyurethane face with polyester/cotton/ rayon backing. This durable, water resistant and easy clean fabric comes in 27 colorways. Applications are for upholstery, wall covering, footwear, apparel, home furnishings and accessories.



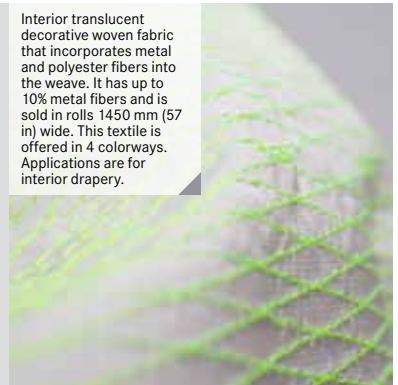
MC#: 4051-02

Thin films used to measure pressure between any two mating rolls. This low-cost PET film contains a layer of microcapsules which change in color intensity depending on the amount of pressure applied to the film. Currently used in industrial applications.



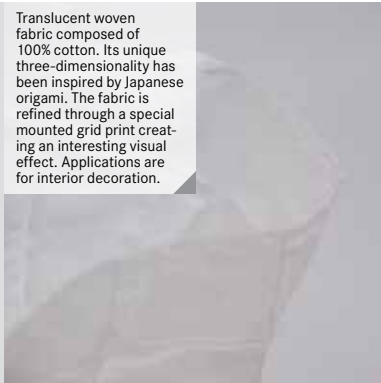
MC#: 4438-09

Interior translucent decorative woven fabric that incorporates metal and polyester fibers into the weave. It has up to 10% metal fibers and is sold in rolls 1450 mm (57 in) wide. This textile is offered in 4 colorways. Applications are for interior drapery.



MC#: 4438-10

Translucent woven fabric composed of 100% cotton. Its unique three-dimensionality has been inspired by Japanese origami. The fabric is refined through a special mounted grid print creating an interesting visual effect. Applications are for interior decoration.



MC#: 4438-11

Woven fabric composed of 100% Polyester Trevira CS. It has excellent fire retardancy due to the Trevira CS fibers. It is sold in rolls of up to 3000 mm (118.1 in) wide and is available in 13 solid colors. Applications are for interior decoration.



MC#: 4438-12

Woven decorative fabric composed of 50% cotton, 33% metal yarn and 17% polyester. This fabric has a chintz finish which gives it a glossy smooth appearance, allowing it to withstand washing or dry cleaning. Applications are for residential and commercial interior drapery.



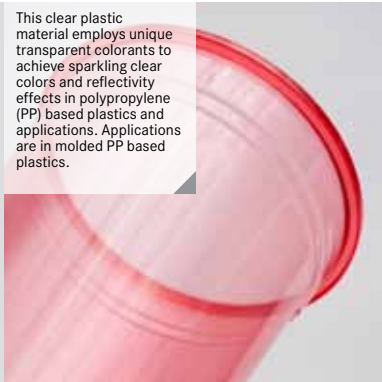
MC#: 4438-13

Double-woven fabric composed of 100% Polyester Trevira CS. It features a circle pattern and a voluminous feel produced by shrink yarns. These translucent textiles are fire retardant, lightweight, and washable. Applications are for interior drapery.



MC#: 4879-03

This clear plastic material employs unique transparent colorants to achieve sparkling clear colors and reflectivity effects in polypropylene (PP) based plastics and applications. Applications are in molded PP based plastics.



MC#: 5210-06

100% polyvinylidene fluoride mesh material used in vertical façade applications. The mesh is UV-resistant, colorfast, weather proof, dirt- and water-repellent, and does not absorb moisture. Applications are for façade cover and overhead shade protection.



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MC#: 5479-03

Flower seeds, herbs, and vegetables are embedded into 100% post-consumer recycled packaging material. After consumption, instead of throwing this packaging material away it can be planted, yielding flowering plants. Applications are packaging for consumer products.



MC#: 6480-03

Rigid and flexible sheets and mats made from compressed flax and natural fibers. This mat is created through physical entanglement of the fibers similar in process to felt. Applications are automotive trim.



MC#: 6480-06

Flexible mat composed of glass fibre and polypropylene (PP). The mat is created with a needle punched blend of glass fibres and a thermoplastic PP binder. Applications are for parcel shelves and load floor and the automotive industry.



MC#: 5463-07

Mosaic tile that have over 300 color and design combinations. These polyester molded forms can be installed on a variety of substrates including glass, wood, and cement. Suitable for commercial or residential indoor vertical and horizontal surfaces.



MC#: 6472-06

Soft textured water-based and energy UV curable topcoat. This coating has an excellent adhesion to paper, paper-board, and some treated film substrates. It is used to enhance magazines, catalogs, POP displays, greeting cards, tags, labels and inserts.



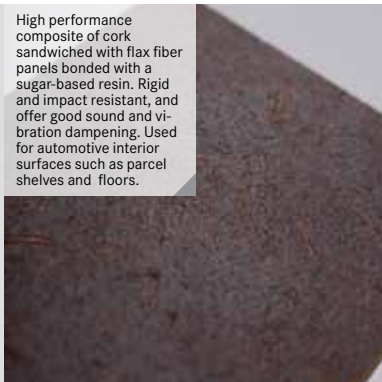
MC#: 6480-04

Flexible mat composed of glass fiber and polypropylene (PP). The mat is created through a needle punched blend of glass fibers and a thermoplastic binder PP fiber. Applications are for parcel shelves and load floor and the automotive industry.



MC#: 6480-07

High performance composite of cork sandwiched with flax fiber panels bonded with a sugar-based resin. Rigid and impact resistant, and offer good sound and vibration dampening. Used for automotive interior surfaces such as parcel shelves and floors.



MC#: 5479-02

100% post consumer recycled flexible molded pulp based packaging material system used to create a variety of different custom molded shapes including clamshells, trays, inserts, end caps, and other protective products for packaging.



MC#: 6480-02

Biodegradable, compostable, mulching mat that is an alternative to coir (coconut fiber) or plastic fiber batting. The mats may be stitched, cut, folded and wrapped like regular felt. Applications are horticultural mulching and automotive liners.



MC # 6480-05

A mat composed of natural fiber and poly-propylene (PP) bleached flax. The mat is created through a needle punched blend of natural fiber bleached flax and a thermoplastic PP fiber. Used for parcel shelves and load floor and the automotive industry.



MC#: 6480-08

Natural fiber infused within a thermoset bioresin that has molded into a desired shape with a heated tool. It is made of 100% flax fibers embedded in a sugar-based bioresin. Used in the automotive and fashion industry.



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MC#: 6480-09

Lightweight thermoset composite that is 100% biobased. This is one of the first 100% biobased and reclaimable composites that can compete with the strength of fiberglass products. Applications are for load floors and automotive liners.



MC#: 6825-01

Flexible support padding material that is composed of a four-way stretch nylon bonded to a Neoprene cushioning material. The stretch nylon is a low-friction top cloth which helps prevent the effects of abrasive motions. Used in athletic apparel.



MC#: 6826-01

Felt wallcovering composed of 100% recycled PET bottles with a self-adhering backing. The semi rigid felt is used as sound and vibration absorbing wallcovering with excellent properties. It is suitable for use as wallpaper or tack-boards.



MC#: 6827-01

Translucent acoustic dampening textile that has good sound absorption properties as well as low flammability. The textile complies European standards for textile flammability in public buildings. Applications are for window treatments.



MC#: 6827-02

Three-dimensional vertical rib translucent acoustic textile that has outstanding sound absorption properties and low flammability. The textile complies with European standards for textile flammability in public buildings. Applications window treatments.



MC#: 6827-03

Textured translucent acoustic textile that has outstanding sound absorption properties and low flammability. The textile complies with European standards for textile flammability in public buildings. Applications are for window treatments.



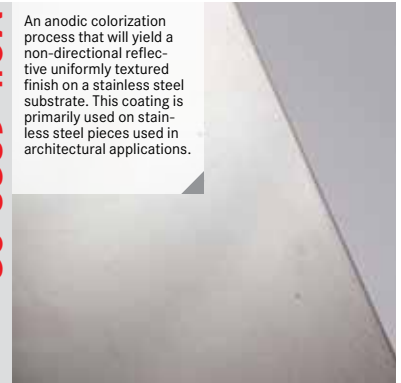
MC#: 6828-01

Process for applying a thin colorized ceramic (titanium carbide) film layer to a stainless steel substrate. The film is employed to tint the steel while maintaining the surface characteristics of the stainless steel substrate. Used in elevator manufacturing.



MC#: 6828-02

An anodic colorization process that will yield a non-directional reflective uniformly textured finish on a stainless steel substrate. This coating is primarily used on stainless steel pieces used in architectural applications.



MC#: 6828-03

A mechanical metal work processing technique that is akin to embossing, involving rolling coiled sheet metal through a series of work rolls to impart a desired low gloss highly uniform texture finish onto a stainless steel or titanium substrate. For architectural surfaces.



MC#: 6829-01

Self-cleaning ceramic wall tiles that remove harmful nitrogen oxide (NOx) gases from the air. This occurs by photocatalysis of particles of NOx resulting in the emission of harmless nitrates by the action of UV. Applications are for building cladding.



MC#: 6830-01

A process for the accurate and repeatable folding of clear polymer cartons using radio frequency (RF) heating. It can be conducted on a wide variety of materials and achieve a range of styles, shapes and sizes. For packaging.



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MC#: 6831-01

Latex-saturated substrate base that has a PU and acrylic coating with different texturing and surface engineering applied to it. The branding or burnishing effects are achieved through decorative heat & pressure-stamping. Used for book covers.



MC# 6832-01

The development of adhesion molding and nanomolding technologies have resulted in the creation of bonding techniques enabling the joining of metal and plastic parts without the mechanical fixtures. Used in the construction of electronic equipment.

