

APRIL 10 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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APRIL 10 MATERIALS UPDATE

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CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

Ceramic

Natural

Process

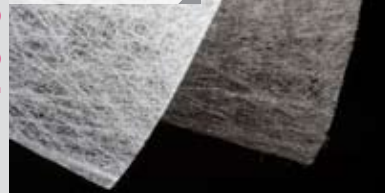
MC#: 2490-03

Composite polyester filtration media. This flexible sheet is produced by laminating lightweight layers of a nonwoven material into a single fabric. Applications include apparel interlinings, fiber-reinforced plastics and filtration.



MC#: 2490-04

Flexible thermally bonded nonwoven that is typically used as a vapor retarder in construction and as a geotextile. This polypropylene (PP) fabric contains 20% post-industrial recycled content and offers tear, puncture and impact resistance.



MC#: 6625-01

Paperless vapor retarder for use in construction. It is constructed from a top layer of polypropylene film; a fire retardant adhesive that bonds to a triaxial fiberglass reinforcing scrim and a back layer of aluminum metallized polyester film.



MC#: 4877-03

Metallized embossed film for packaging and other applications. This PU film is embossed by roller during the extrusion process on one side. The surface is then metallized with an aluminum base layer and coated with a colored top surface.



MC#: 2499-07

A cellulosic textile fiber with a permanently integrated mineral pigment, that offers long-term UV protection. The fiber is produced from wood and is 100% biodegradable. Applications are for high performance, outdoor and sports apparel.



MC#: 5296-04

Acrylic solid surfacing that mimics the look of marble or quartz. This non-porous acrylic sheet has good stain and chemical resistance; it is unreactive to most acids and bases as well as hydrocarbons and cleaning products.



MC#: 5343-22

High performance textiles that incorporate Kevlar. This nylon based fabric incorporates Kevlar into the weave which increases its abrasion resistance, bursting strength, and tensile strength. Applications are for outdoor, work and sports apparel.



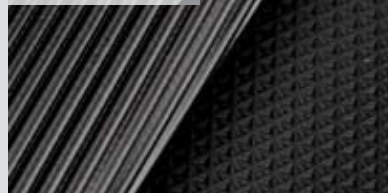
MC#: 5343-23

Woven textile backed with polyvinyl chloride (PVC) synthetic leather. A combination of 60% polyester and 40% cotton yarns are used to create a 2.5 mm (.01 in) wide repeat checkerboard appearance.



MC#: 5343-24

Durable, high wear textiles that are composed of 100% polyester. They are washable and have exceptional tear and tensile strength. The fabrics can be laminated onto sneakers, outerwear, as protective patches for work and sports apparel.



MC#: 5343-25

Transparent thermoplastic polyurethane film stitched to a polyester spacer fabric backing. These textiles offer some cushioning properties as well as scratch-, abrasion-, and wind-resistance. Applications are for apparel.



MC#: 5343-26

These high performance textiles are composed of 65% polyester (PE) and 35% polyvinyl chloride (PVC). A woven polyester textile is laminated with PVC film rendering the fabric breathable. Applications are for accessories and apparel.



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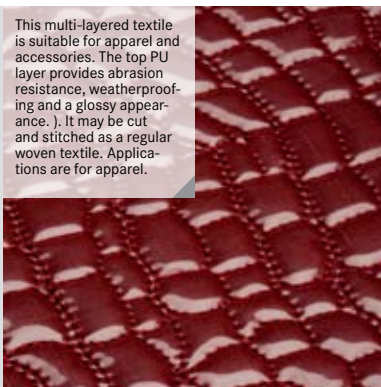
Ceramic

Natural

Process

MC#: 5343-27

This multi-layered textile is suitable for apparel and accessories. The top PU layer provides abrasion resistance, weatherproofing and a glossy appearance. It may be cut and stitched as a regular woven textile. Applications are for apparel.



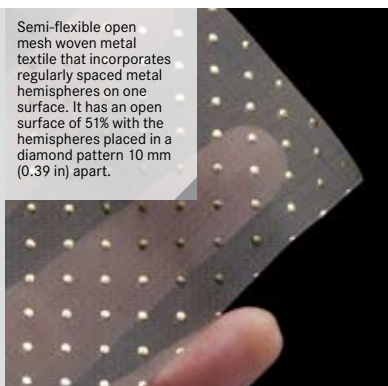
MC#: 5343-28

Neoprene textiles with a knit polyester backing. A breathable, wear resistant rubber-based fabric composed of a layer of polychloroprene (neoprene). Applications include apparel where compressive support and thermal insulation.



MC#: 5509-02

Semi-flexible open mesh woven metal textile that incorporates regularly spaced metal hemispheres on one surface. It has an open surface of 51% with the hemispheres placed in a diamond pattern 10 mm (0.39 in) apart.



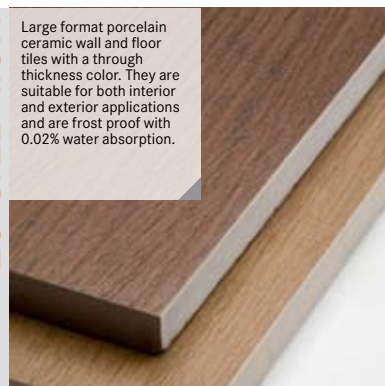
MC#: 5566-04

Extremely thin natural stone sheets mounted on fleece or natural fiber backing. The surface of the stone is sealed with a protective lacquer. Applications include home and automobile interiors, leather-working industries, and packaging.



MC#: 5712-07

Large format porcelain ceramic wall and floor tiles with a through thickness color. They are suitable for both interior and exterior applications and are frost proof with 0.02% water absorption.



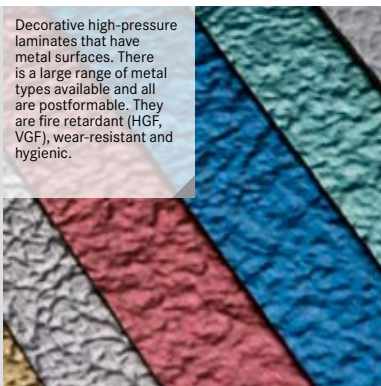
MC#: 5712-08

Ceramic tile from 60% recycled content. These matte surfaced fired tiles are offered in beige, black and gray and mimic natural stone surfaces. They have good frost, chemical and abrasion resistance and use waste material.



MC#: 5830-06

Decorative high-pressure laminates that have metal surfaces. There is a large range of metal types available and all are postformable. They are fire retardant (HGF, VGF), wear-resistant and hygienic.



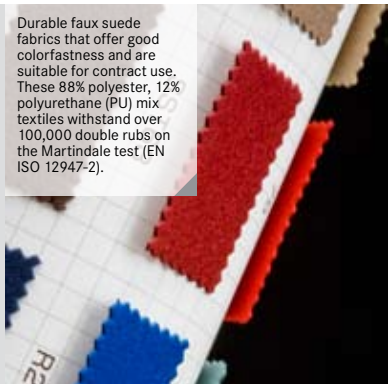
MC#: 5830-07

High pressure laminate (HPL) that utilizes renewable resources as an alternative to paper. It comprises wood pulp from European forests mixed with a thermosetting resin. Currently suitable for both residential and commercial interiors.



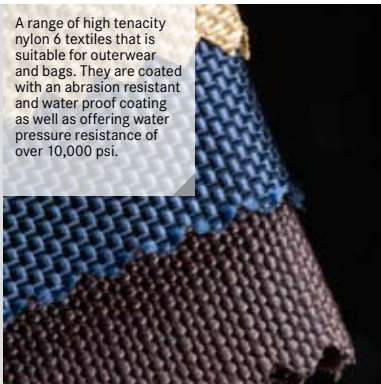
MC#: 6142-05

Durable faux suede fabrics that offer good colorfastness and are suitable for contract use. These 88% polyester, 12% polyurethane (PU) mix textiles withstand over 100,000 double rubs on the Martindale test (EN ISO 12947-2).



MC#: 6486-02

A range of high tenacity nylon 6 textiles that is suitable for outerwear and bags. They are coated with an abrasion resistant and water proof coating as well as offering water pressure resistance of over 10,000 psi.



MC#: 6542-02

A specific cutting process for the surface of leather textiles. The leather is processed with fine knives and receives rhombic, imbricate (overlapping) or lamellar (gill-shaped structure) cuts. Applications are for maroquinerie.



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MC#: 6621-01

A steam-cured plaster board made from fiber cement. The material is non-combustible, UV resistant, pest resistant, weather- and frost-proof, breathable, and moisture regulating. Applications include façade cladding.



MC#: 6624-01

Fiber reinforced mosaic tiles with a glossy 3D surface effect. These tiles are composed of 80% cement and 20% natural fiber and are spray coated with an iridescent or metallic paint. Applications are for interior wall decoration.



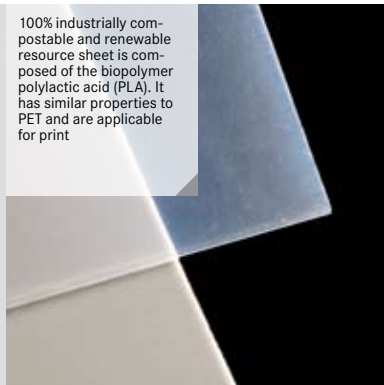
MC#: 6628-01

A process for the inclusion of decorative graphics in a polymer sheet. Single or four color printed as well as photographic images are incorporated as a layer within acrylic panels by the sandwiching of the film between two pieces.



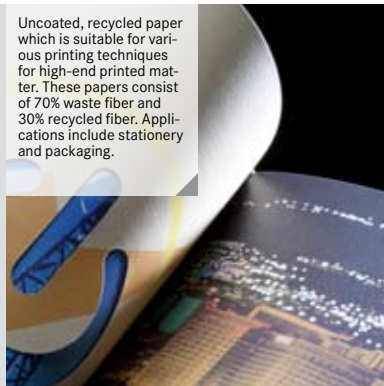
MC#: 6619-01

100% industrially compostable and renewable resource sheet is composed of the biopolymer polylactic acid (PLA). It has similar properties to PET and are applicable for print



MC#: 6622-01

Uncoated, recycled paper which is suitable for various printing techniques for high-end printed matter. These papers consist of 70% waste fiber and 30% recycled fiber. Applications include stationery and packaging.



MC#: 6620-01

Ceramic wall tiles that regulate the humidity of a room. They consist of allophane, a natural clay with micro-pores. Excessive moisture in the room can be absorbed and re-released as the humidity conditions in a room fluctuate.



MC#: 6623-01

Decorative veneer that utilizes recycled wood. This veneer is composed of 100% recycled wood scraps leftover from this manufacturer's primary production of wood products cultivated using sustainable methods.



MC#: 6626-01

Fired porcelain ceramic tile that incorporates 40% post-industrial waste material. They comply with LEED MR Credits 4.1 and 4.2 and they recycle all solid waste including all unfired and fired processing waste.



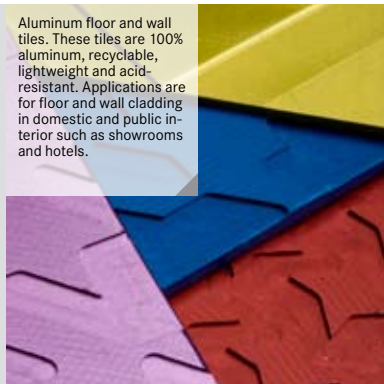
MC#: 6627-01

Stretch, wrinkle-resistant, knit textile created with a proprietary process. This extremely lightweight textile can be made with a blend of nylon (PA) and polyurethane (PU), or a blend of nylon and polyester (PET). Applications include clothing.



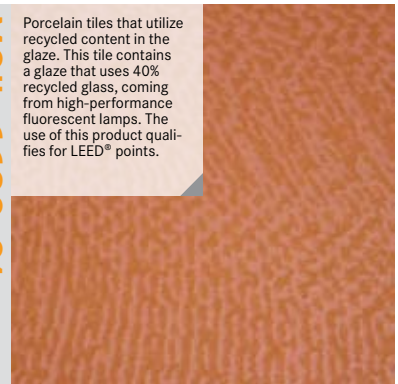
MC#: 6629-01

Aluminum floor and wall tiles. These tiles are 100% aluminum, recyclable, lightweight and acid-resistant. Applications are for floor and wall cladding in domestic and public interior such as showrooms and hotels.



MC#: 6630-01

Porcelain tiles that utilize recycled content in the glaze. This tile contains a glaze that uses 40% recycled glass, coming from high-performance fluorescent lamps. The use of this product qualifies for LEED® points.



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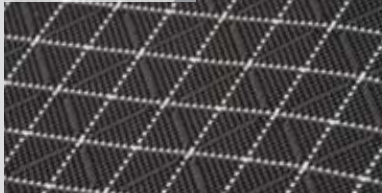
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MC#: 6631-01

High performance outdoor fabric that utilizes Dyneema yarn. The textile is also coated with a polyurethane layer to give improved abrasion and water resistance. Each Dyneema thread is 15 times as strong as steel per weight.



MC# 6632-01

A process for the laser cutting of fabrics to create interior screens. This range of screen textiles offers blackout properties and is fire retardant. The textiles are tear and UV resistant. Applications are for interior screens and wall hangings.



MC#: 6632-02

A process for the laser cutting of thin flexible veneers to create interior wall panels. This range of designs offers blackout properties, fire retardance as well as no fray. Applications are for interior screens and wall hangings.

