

March **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 recently voted into our library through a jury selection process, that are now available on our database.

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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Index

carbon

cement

metal

glass

polymer

ceramic

process

natural

MC 2691-11

Water repellent, wind proof fleece composed of 100% polyester (PET). The fabric is highly breathable and blocks wind four times more effectively than traditional fleece because of the tighter knit construction.



MC 2691-12

Soft, breathable, insulative knitted textile composed of 100% polyester (PET). This material is dimensionally stable, durable, and not prone to migration within a garment.



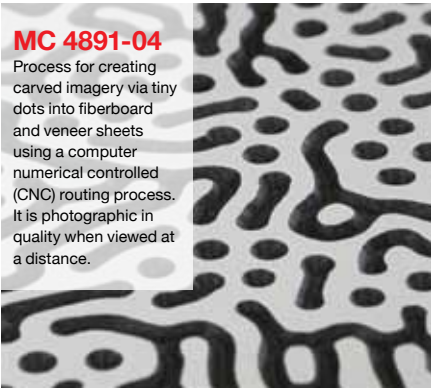
MC 3679-03

Staple fibers with phase change material (PCM) incorporated into the body of polyester (PET), acrylic, and viscose filaments. Incorporating the PCM directly the filament improves next-to-skin performance and wearer comfort.



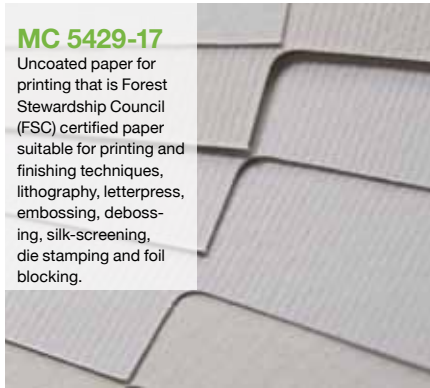
MC 4891-04

Process for creating carved imagery via tiny dots into fiberboard and veneer sheets using a computer numerical controlled (CNC) routing process. It is photographic in quality when viewed at a distance.



MC 5429-17

Uncoated paper for printing that is Forest Stewardship Council (FSC) certified paper suitable for printing and finishing techniques, lithography, letterpress, embossing, debossing, silk-screening, die stamping and foil blocking.



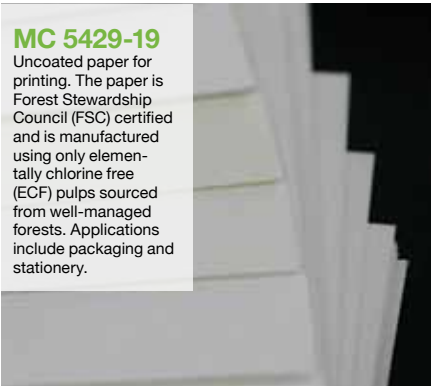
MC 5429-18

Uncoated paper for printing. The paper is Forest Stewardship Council (FSC) certified paper specially suited for high quality offset and screen-printing, without any preliminary surface varnishing, and is ideal for foil stamping.



MC 5429-19

Uncoated paper for printing. The paper is Forest Stewardship Council (FSC) certified and is manufactured using only elementally chlorine free (ECF) pulps sourced from well-managed forests. Applications include packaging and stationery.



MC 5429-20

Paper that uses an 'upcycling' process to minimize the waste of natural resources. This process incorporates waste fibers (normally discarded) and reduces the use of dyes and pulp.



MC 5429-21

High quality water-marked paper intended to look like handmade paper. First brand to be Forest Stewardship Council (FSC) certified. Applications include packaging and stationery.



MC 5429-22

Paper derived from starch extracted from potato waste, a by-product of the food industry. It is Forest Stewardship Council (FSC) certified paper suitable for printing and finishing techniques, and embossing.



MC 6304-04

Plush textile composed of woven bamboo viscose chenille yarns adhered to a knitted fabric backing. This material has a soft silky hand but is extremely durable with a contract-level upholstery rating.



MC 6767-02

Thermoplastic cellulose acetate resin composed of 70 - 80% cellulose acetate and 20 - 30% plasticizer. The plasticizer used in this resin is of a physiologically harmless polyol composition rather than a phthalate composition.



Index

carbon

cement

metal

glass

polymer

ceramic

process

natural

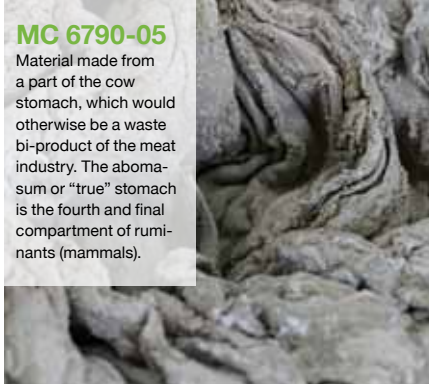
MC 6790-04

Rigid, leather-like material made from a part of the cow stomach that would otherwise be a waste by-product of the meat industry. The reticulum or "honeycomb" is the smaller, secondary stomach chamber.



MC 6790-05

Material made from a part of the cow stomach, which would otherwise be a waste bi-product of the meat industry. The abomasum or "true" stomach is the fourth and final compartment of ruminants (mammals).



MC 6799-08

Release papers used to create textured surfaces in synthetic leather coated fabrics. These flexible translucent cellulose papers have a fine texture embossed on the surface that is the 'negative' of the resulting texture on the fabric.



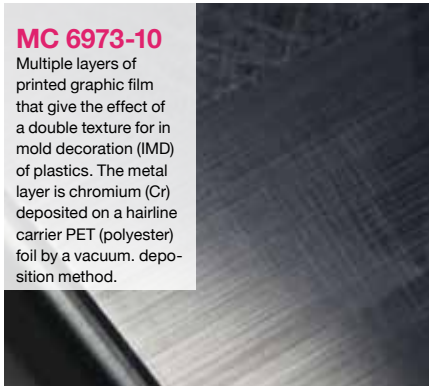
MC 6973-09

Printed graphic film that shows a fine gradation of color and texture for in mold decoration (IMD) of plastics. The top surface layer has been vacuum metallized with aluminum (Al).



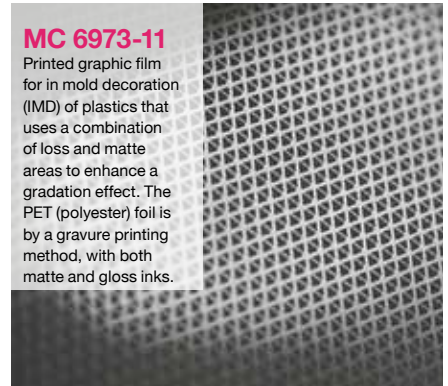
MC 6973-10

Multiple layers of printed graphic film that give the effect of a double texture for in mold decoration (IMD) of plastics. The metal layer is chromium (Cr) deposited on a hairline carrier PET (polyester) foil by a vacuum deposition method.



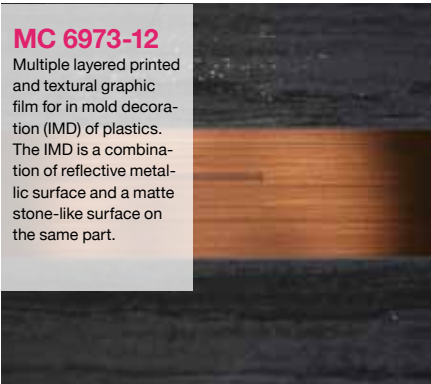
MC 6973-11

Printed graphic film for in mold decoration (IMD) of plastics that uses a combination of loss and matte areas to enhance a gradation effect. The PET (polyester) foil is by a gravure printing method, with both matte and gloss inks.



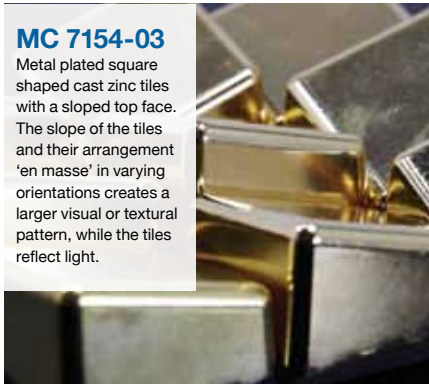
MC 6973-12

Multiple layered printed and textural graphic film for in mold decoration (IMD) of plastics. The IMD is a combination of reflective metallic surface and a matte stone-like surface on the same part.



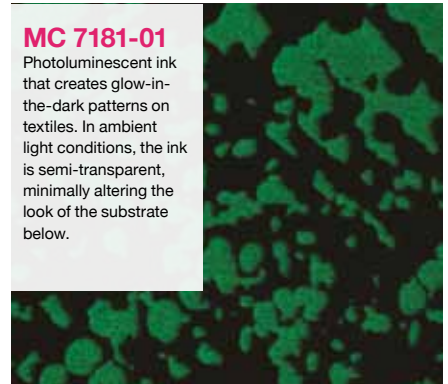
MC 7154-03

Metal plated square shaped cast zinc tiles with a sloped top face. The slope of the tiles and their arrangement 'en masse' in varying orientations creates a larger visual or textural pattern, while the tiles reflect light.



MC 7181-01

Photoluminescent ink that creates glow-in-the-dark patterns on textiles. In ambient light conditions, the ink is semi-transparent, minimally altering the look of the substrate below.



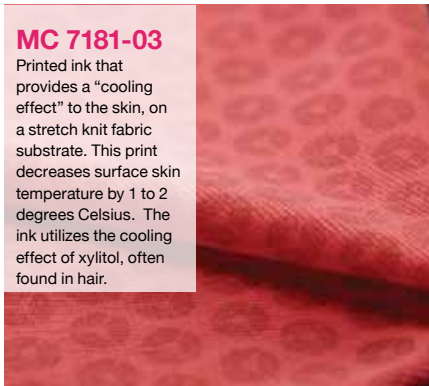
MC 7181-02

Retro-reflective patterns printed onto knitted stretch fabrics, comprised of Polyester (PET) / spandex (PU) blends. This printing process allows for the use of retro-reflective properties, seen in the reflection of car headlights.



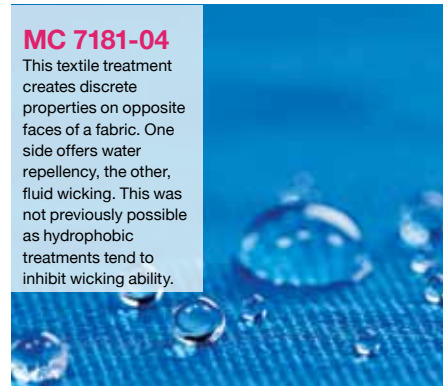
MC 7181-03

Printed ink that provides a "cooling effect" to the skin, on a stretch knit fabric substrate. This print decreases surface skin temperature by 1 to 2 degrees Celsius. The ink utilizes the cooling effect of xylitol, often found in hair.



MC 7181-04

This textile treatment creates discrete properties on opposite faces of a fabric. One side offers water repellency, the other, fluid wicking. This was not previously possible as hydrophobic treatments tend to inhibit wicking ability.



Index

carbon

cement

metal

glass

polymer

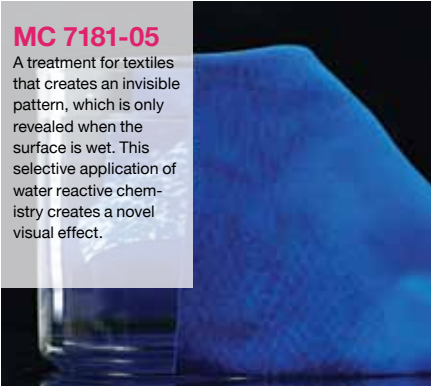
ceramic

process

natural

MC 7181-05

A treatment for textiles that creates an invisible pattern, which is only revealed when the surface is wet. This selective application of water reactive chemistry creates a novel visual effect.



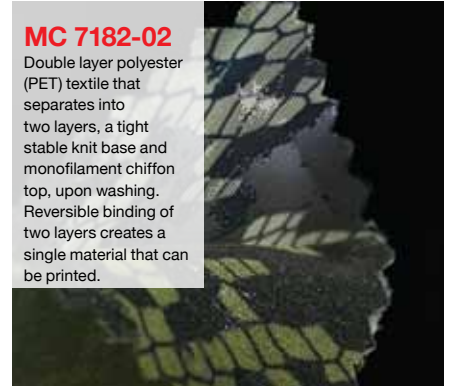
MC 7182-01

Lightweight woven textiles comprised of polyester (PET) or nylon (PA)/PET blend, which feature 3D embossed texture. The 3D effect is highly textural and features an organic irregularity.



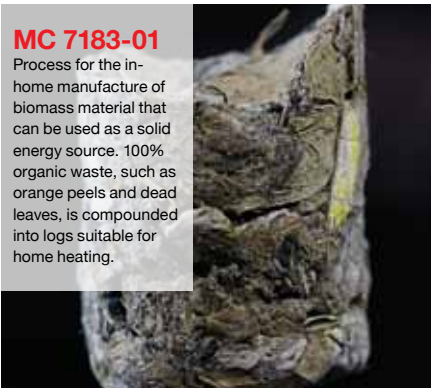
MC 7182-02

Double layer polyester (PET) textile that separates into two layers, a tight stable knit base and monofilament chiffon top, upon washing. Reversible binding of two layers creates a single material that can be printed.



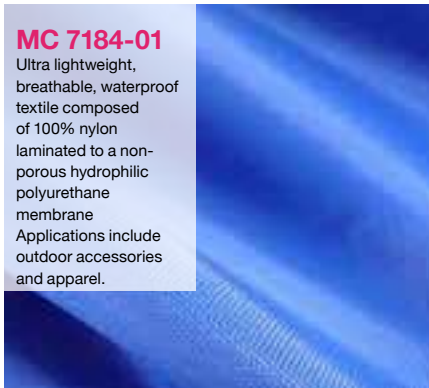
MC 7183-01

Process for the in-home manufacture of biomass material that can be used as a solid energy source. 100% organic waste, such as orange peels and dead leaves, is compounded into logs suitable for home heating.



MC 7184-01

Ultra lightweight, breathable, waterproof textile composed of 100% nylon laminated to a non-porous hydrophilic polyurethane membrane. Applications include outdoor accessories and apparel.



MC 7184-02

Ultra lightweight textile composed of 100% nylon with a durable, biocompatible phospholipid finish that possesses moisturizing properties, as it doesn't inhibit the ability of skin to retain water.



MC 7184-03

Ultra lightweight textile composed of 100% polyamide (PA; nylon) with a durable water repellent (DWR) finish. This material has a high tensile strength, high tear strength and is downproof.



MC 7185-01

Range of weft-inserted warp knitted fabrics composed of polyester and nylon fibers. Specifically designed to cause tools often used in break-in attempts, such as chainsaws, to immediately seize.



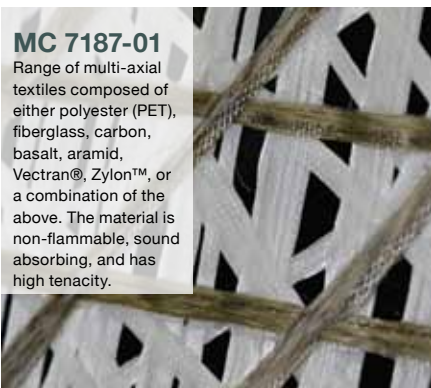
MC 7186-01

Tiles with a malleable, rough, textured surface made from dyed snail excrements. Snails are fed a strict regime of colored cellulose paper, resulting in irregular textures and mottled color.



MC 7187-01

Range of multi-axial textiles composed of either polyester (PET), fiberglass, carbon, basalt, aramid, Vectran®, Zylon™, or a combination of the above. The material is non-flammable, sound absorbing, and has high tenacity.



MC 7188-01

Silver antimicrobial finish for textiles which uses a proprietary organic polymer 'delivery system' to incorporate silver into the fabric surface, and which then releases silver ions only in the presence of unwanted bacteria.



MC 7189-01

Flexible laminate film, composed of 15% polypropylene, 20% polyester, 60% polyethylene and 5% proprietary ingredients, that can be converted into a stand-up flexible beverage container, particularly water.



Index

carbon

cement

metal

glass

polymer

ceramic

process

natural

MC 7190-01

Soft, pliable vegetable tanned leather. Compared to conventional leather tanning processes that use toxic heavy metals, this one uses natural vegetable dyes and plant extracts from sustainable Mimosa trees.



MC 7191-01

Solid surfacing made from recycled, shredded United States currency. The material on which bills are printed is actually a custom blend of 75% cotton and 25% linen.



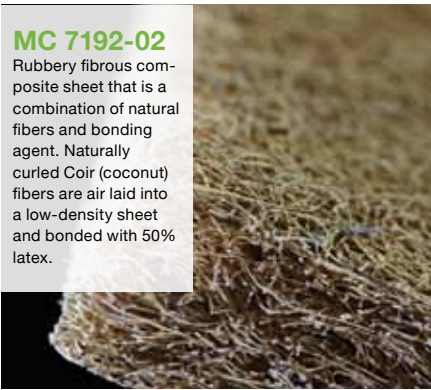
MC 7192-01

Moldable fibrous composite that offers easy formability of complex shapes with good dimensional stability. The composite is a combination of 60% coir fibres and 40% natural latex, that allows the fibers to be exposed.



MC 7192-02

Rubbery fibrous composite sheet that is a combination of natural fibers and bonding agent. Naturally curled Coir (coconut) fibers are air laid into a low-density sheet and bonded with 50% latex.



MC 7193-01

Pelt from the Orylag, a breed of rabbit raised exclusively in France and whose production is strictly controlled and monitored. The individual hairs are very fine, which results in pelts which are extremely soft.



MC 7194-01

A range of plywood boards whose top surface is bamboo from the Dendrocalamus Asper species, the strongest Asian bamboo type using a low- or no-added formaldehyde adhesive, qualifying the panels for LEED credit.



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