

November **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, which are now available on our database.

These materials can be seen online and onsite at our New York location. Select materials are also available at our international locations; please call or email us at any of the addresses listed for more information.

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MC 0027-20

Structural polymethacrylimide (PMI) foam with a high strength-to-weight ratio, low resin uptake, high mechanical strength and thermal properties for a wide range of composite applications.



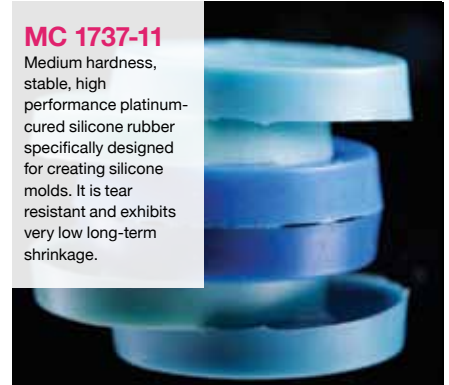
MC 1737-10

Soft, stable, high performance platinum-cured silicone rubber. These translucent, two part curable resins are easily painted and are used for mold making and theatrical make up.



MC 1737-11

Medium hardness, stable, high performance platinum-cured silicone rubber specifically designed for creating silicone molds. It is tear resistant and exhibits very low long-term shrinkage.



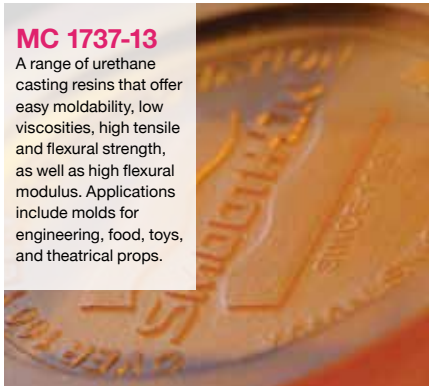
MC 1737-12

A range of urethane molding compounds for use as casting and mold materials. These resins offer easy pouring, with negligible shrinkage and good resolution around fine details.



MC 1737-13

A range of urethane casting resins that offer easy moldability, low viscosities, high tensile and flexural strength, as well as high flexural modulus. Applications include molds for engineering, food, toys, and theatrical props.



MC 1737-14

Water-blown, flexible, polyurethane moldable foam for theatrical use. These compressible, durable, two-component castable foams are strong, versatile and easy to use.



MC 2463-11

Process for the insert molding of synthetic suede and synthetic leather textiles. The soft pile-like nature of the surface remains intact despite the heat and pressure applied during molding.



MC 2567-23

Durable woven fabrics composed of either nylon or polyester. The fabrics are durable, abrasion resistant, dimensionally stable, easy to clean, and UV-, water-, mold- and mildew-resistant, ideal for flags and banners.



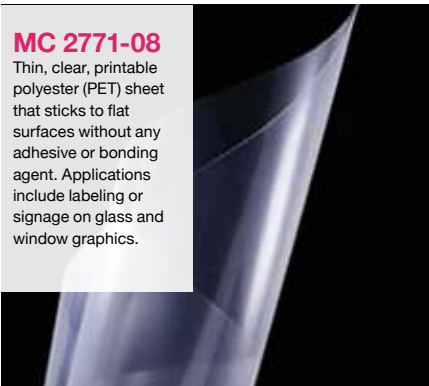
MC 2567-24

High-visibility and flame-resistant woven and knitted mesh fabrics with an excellent protection to weight ratio so it is also cool and comfortable to wear, especially for safety apparel or textile products.



MC 2771-08

Thin, clear, printable polyester (PET) sheet that sticks to flat surfaces without any adhesive or bonding agent. Applications include labeling or signage on glass and window graphics.



MC 2794-05

Masterbatch additive containing thermochromic microcapsules dispersed in a polymer. It is used for creating interactive plastic products such as containers and appliances.



MC 3687-16

Stain resistant, durable, antimicrobial leather composed of 100% polyurethane on a reinforced rayon backing. It provides thermal comfort, durability, long-lasting color-fastness and abrasion resistance.



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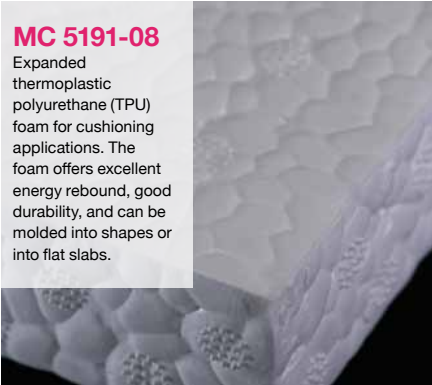
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MC 5191-08

Expanded thermoplastic polyurethane (TPU) foam for cushioning applications. The foam offers excellent energy rebound, good durability, and can be molded into shapes or into flat slabs.



MC 5219-03

Lightweight, biaxially braided, expandable sleeving for noise reduction and wire sheathing applications, providing superior protection from abrasion and vibration in comparison to foam harness sleeves.



MC 5498-06

Laminated glass for interior use that uses waste sawdust as a decorative element between two sheets of glass. Applications include interior vertical surfaces such as wall cladding, partitions and also shelving.



MC 6395-04

Woven nylon (polyamide; PA) textile coated with a proprietary rubber that is made from recycled car tires. Applications include footwear, trim, luggage, outdoor equipment, equestrian bandages and seals.



MC 6560-08

Lightweight, composite tile made from post-consumer recycled cellulose fibers with a metallic finish that will rust or patina over time. Applications include interior design, wall tiling, furniture, signage and display units.



MC 6773-19

Durable high-density polyethylene (HDPE) sheets for use as wood or metal alternatives as they will not rust, corrode, rot, delaminate, splinter or swell. For indoor or outdoor cabinetry, furniture and signage.



MC 6831-02

Embossed printing, packaging and stationery paper with the appearance of a woven linen textile. Made from FSC certified pulp, it is acid-free, and of archival quality.



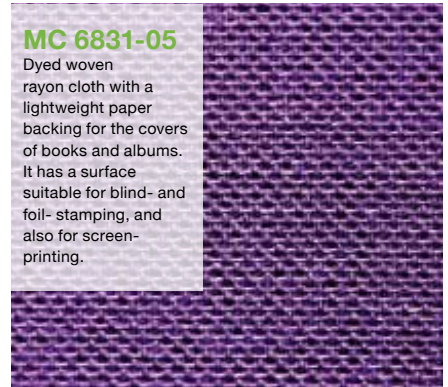
MC 6831-04

Synthetic leather for book covers composed of a PU face on a non-woven backing. This material can be used as an alternative to animal leather, with a texture and hand reminiscent of genuine hides.



MC 6831-05

Dyed woven rayon cloth with a lightweight paper backing for the covers of books and albums. It has a surface suitable for blind- and foil-stamping, and also for screen-printing.



MC 6831-06

Kraft paper developed for the exterior covering of packaging and made from Forest Stewardship Council (FSC) certified pulp. The paper is suitable for blind stamping, foil stamping and screen-printing.



MC 6973-15

Process for the post molding decoration of 3D objects via sublimation. In comparison to IMD or IML, this process allows for smaller runs of products to be decorated and greater customization.



MC 6973-16

Process for the decoration and coating of 3D molded parts. It is suitable for small or large lots, and the decorated parts have a high resistance to chemicals and abrasion.



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MC 6973-17

Film lamination process for the post-molding decoration of parts. This process allows for smaller runs of products to be decorated, and with the same level of sophistication.

MC 7268-02

Durable polyester film that provides a color-shifting effect. The effect is visible from both sides of the glass, and provides an aesthetic reminiscent of genuine dichroic glass but at less cost and installation time.

MC 7307-01

Flexible, rubbery olefin block copolymer (OBC) for film, foam or molded rubber applications in consumer goods. It has excellent abrasion resistance, good elastic recovery, and is dishwasher safe.

MC 7308-01

A printing process that creates "mirror-like" surfaces on plastic packaging without the need for metallic films. This method eliminates the waste stream of corrosive elements produced from demetallization.

MC 7309-01

Paper made from the post-consumer waste of burlap coffee bean bags. Each burlap bag weighs 2.5 lbs (1.1 kg) and about 1.5 tons (1.36 tonnes) of chopped up bags can make 3 tons (2.72 tonnes) of paper.

MC 7310-01

Biodegradable and thermoformable resin composed of 30% polypropylene (PP) compounded with a fine particulate of calcium carbonate (CaCO₃) and colorants.

MC 7311-01

Die-cut cork shapes that have been printed for decorative effect. Cork waste from the wine industry is ground to size and bonded into flat sheets, offering good insulation, water repellency and durability.

MC 7312-01

Fiber cement panel for interior and exterior use. These cement-based panels comprise 10% fibrous wood pulp for improved strength and are produced by the Hatscheck process which is similar to paper making.

MC 7313-01

Discharge printing paste for polyester fabrics that simultaneously removes color from the base fabric and applies a new color for a high contrast print.

MC 7313-02

Ultraviolet absorber for polyester fabrics that is resistant to sublimation, meaning that any subsequent processing such as steaming, curing or printing will not remove or diminish the efficacy of the UV absorber.

MC 7313-03

Fixing agent for direct and reactive dyes composed of a proprietary cationic polymer resin. It is formaldehyde free, resistant to color bleeding and has a high resistance to salts.

MC 7314-01

Glazed lavastone tile. It is commonly used in the building industry, however a new manufacturing technique has allowed it to be glazed so that it is wear-, frost-, stain-, impact- and chemical resistant.

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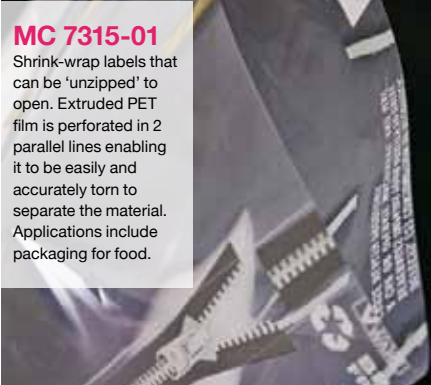
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MC 7315-01

Shrink-wrap labels that can be 'unzipped' to open. Extruded PET film is perforated in 2 parallel lines enabling it to be easily and accurately torn to separate the material. Applications include packaging for food.



MC 7316-01

Acoustic wall panel composed of 100% recycled polyester bottles (PET). They are recyclable, flexible, have fully permeated colors, are structurally rigid, formaldehyde free, and impact and bacteria resistant.



MC 7325-01

Printable paper that acts as food for plants once the surface layer is dissolved in water. The printed sheets are intended for use with cut flowers and are placed in the water along with the flower stalks.



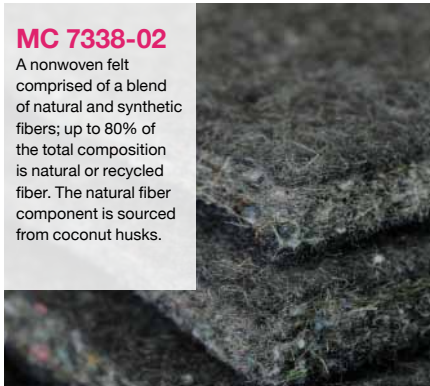
MC 7338-01

Polypropylene (PP) biocomposite utilizing naturally derived fillers sourced from agricultural wastes, including coconut shells. Applications include interior and exterior automotive parts.



MC 7338-02

A nonwoven felt comprised of a blend of natural and synthetic fibers; up to 80% of the total composition is natural or recycled fiber. The natural fiber component is sourced from coconut husks.



MC 7351-01

Thin, peelable induction heat seal for both polyethylene and polypropylene containers. It is designed with proprietary effects for security, anti-tampering and counterfeiting.



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