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Creating a Palette of ***Living COLOURS !***



Mfg of Additive and Engineering Master Batch & Compound | Printing Inks for Gravure and Flexo



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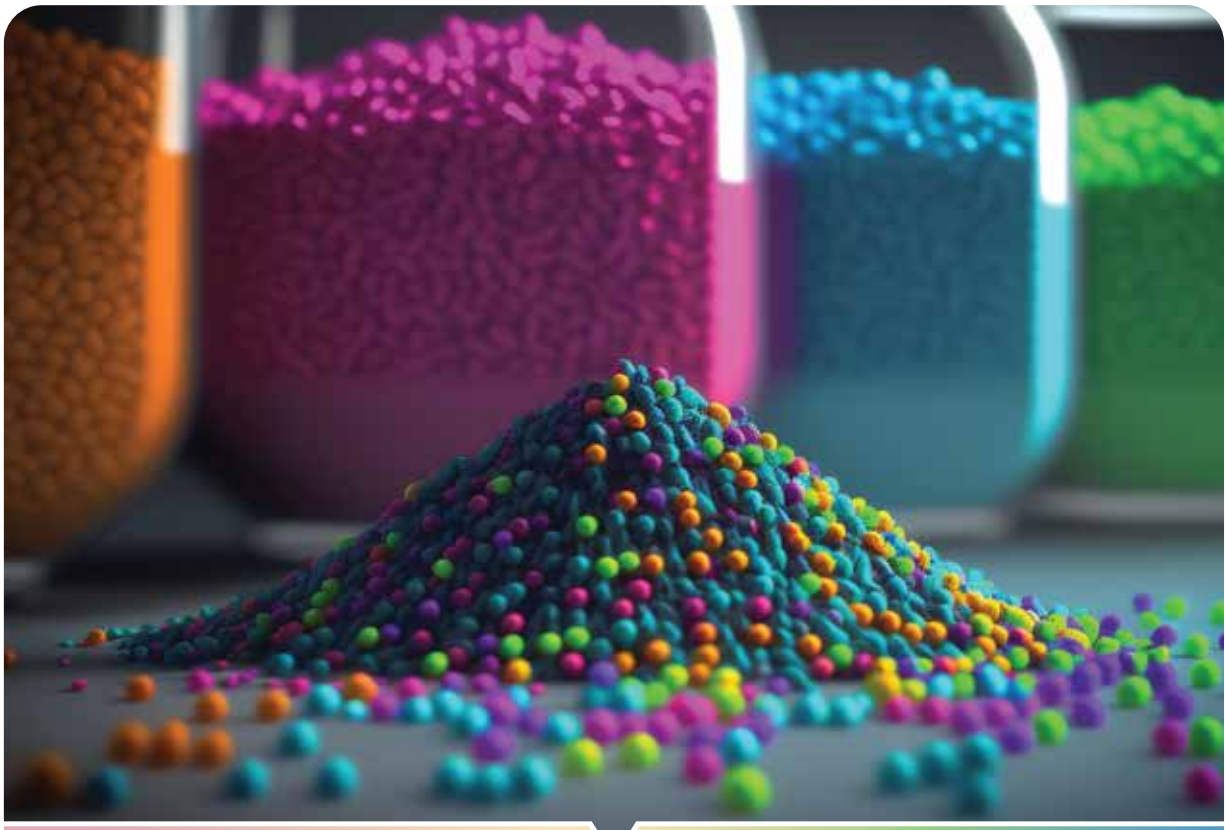
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MOULDING



TEXTILES



NON WOVEN
APPLICATIONS



About Us

Samtone Industries is one of the pioneers and India's leading manufacturer and exporter of colour and additives, Masterbatches for the plastic processing industry. Incorporated in 2009, we have been marketing our product under the brand name Samtone, offering an extensive portfolio of products, capabilities, and technical expertise. The company is backed by technocrats who are aligned with the market movements and demands, which have helped us offer versatile solutions that meet the market's requirements. Over the years, we have carved a space in the competitive marketplace. This is a culmination of continuous improvement in quality, innovation, and customer focus.

Quality is of utmost importance at Samtone Industries, and we align our operations to meet the quality benchmarks, making us an ISO 9001:2008 certified company. Additionally, with a state-of-the-art plant backed by well-equipped labs and highly qualified technicians, Samtone Industries provides the best resources, excellent teamwork, superior quality, and consistent results.

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Quality, Research & Development

At Samtone Industries, quality and R&D facilities are on par with the best in the world. The prestigious ISO 9001:2008 certification attests to our adherence to stringent quality standards. As a part of our efforts to maintain the highest quality standards, Total Quality Management (TQM) is followed at every level and in every process. All production batches undergo processability tests for a wide range of critical performance properties. Our goal is to continually optimize our product's performance while also offering our customers new solutions. Our R&D facility comprises the latest equipment used for testing inputs as well as finished products, in addition to regular online testing.



- Spectrophotometer
- Filter index tester
- Injection moulding machine
- Blown film machine
- MFI tester universal testing machine
- Impact tester
- Muffle furnace

- Opacity tester
- Carbon content tester
- Weatherometer - QUV test
- Twin screw extruder etc.
- FTIR
- TGA
- DSC

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Agricultural Application Masterbatches



Green House Masterbatches

- UV FDA ● UV Nickel ● PPA ● Anti Dust
- Anti Fog ● Diffuser ● IR Thermic
- Antimicrobial ● Anti-algae



Shade Net Masterbatches

- UV FDA ● UV Pesticide Resistant
- UV Non FDA ● Colour Masterbatches
- PPA ● Shining Agent ● Optical Brightner



Mulch Films Masterbatches

- UV FDA ● UV Non FDA ● PPA
- UV Pesticide Resistant ● Shining Agent
- Colour Masterbatches ● Optical Brightner



Irrigation Pipes Masterbatches

- Black Masterbatch

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UV Masterbatches

Ultraviolet (UV) radiation from the sun and other light sources, such as fluorescent lighting, are harmful to polymer properties. Finished plastic parts exposed to direct or indirect sunlight can exhibit surface chalking as the polymer becomes oxidized and can lose physical properties, becoming brittle to the point of no longer being suitable for their original use. UV light also speeds up the fading of plastic colorants.

The extent and rate of this degradation are influenced by various parameters, such as climatic conditions, the thickness of the part, polymer type, or the presence of other additives.

The use of UV stabilizer additives can inhibit or absorb the harmful UV radiation that causes polymer degradation. There are two primary types of stabilizers used today: UV absorbers and Hindered Amine Light Stabilizers (HALS).

It is important to know the specifics of the end-use environment, polymer base, and processing conditions to design the most effective UV stabilization package to meet the performance expectations.

Samtone Industries offers a wide range of Samtone UV stabilizer masterbatches. These cover applications in agriculture, industrial, and food packaging for polymers such as PE, PP, EVA, PLA, PC, PMMA, ABS, and range from standard grades to highly performing stabilizer packages based on the latest generation of HALS stabilizers.

The expertise developed by Samtone Industries in this field allows us to provide you with tailor-made and cost-effective masterbatch solutions for your specific needs. Below is the wide range of UV masterbatch applications.

Product	Application	Particular
UV MB 206	FIBC	PE base Non Food Contact Economic grade
UV MB 351	FIBC	PP base Non Food Contact 30% active contain
UV MB 352	FIBC	PP base Non Food Contact 20% active contain
UV MB 353	FIBC/PP Non Woven	PP base Food Contact 20% active contain UV for long life
UV MB 356	FIBC/Shed Net/Mulch Film	PP base Economic Food Contact
UV MB 301	Geotextile	PP base UV with Black MB added 5 years life
UV MB 354	PP Non Woven/Geotextile	PP base Long Term Stabilization UV specially designed
UV MB 355	PP Non Woven/Yarns/Fibres	PP base advanced Excellent Stabilization UV
UV MB 205	PP Roofing Sheet/PP Thick Application	PP base UV Grade for PP thick application
UV MB 204	Shed Net/Mulch Film	PE base Pesticide Resistant UV Sulphur upto 3000 PPM and Chlorine upto 150 PPM
UV MB 279	Shed Net/Mulch Film	PE base Pesticide Resistant UV Sulphur upto 1000 PPM and Chlorine upto 100 PPM
UV MB 280	Shed Net/Mulch Film	PE base Nickal base UV for outdoor application
UV MB 302	Shed Net/Mulch Film	PE base Pesticide Resistant UV Sulphur above 3000 PPM and Chlorine upto 200 PPM
UV MB 304	Shed Net/Mulch Film	PE base Pesticide Resistant UV Sulphur above 3000 PPM to 4000 PPM and Chlorine upto 200 PPM

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Where Colorful Imagination Takes Flight !

Colour is one of the most fulfilling elements in changing mood. Many times it becomes the catalyst in attracting customers to products. We understand the essence of colours, and therefore, at Samtone Industries, we are in the business of putting together perfect colours for your life.

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Wide range of applications



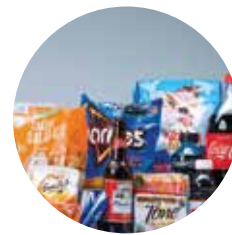
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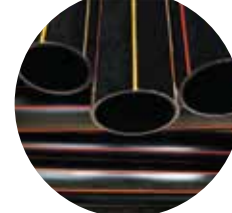
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White Masterbatch for Extrusion Coating

High Opacity, Excellent Brightness, and Good process stability. White masterbatches are manufactured to satisfy specifications for product performance and processing. We create masterbatches with outstanding weather fastness and UV stability for our customers using high-performance TiO₂.



Product Name	TiO ₂ Content
Ext White 1	TiO ₂ Rutile European type specially designed for Extrusion Coating
Ext White 2	TiO ₂ Rutile Chinese type specially designed for Extrusion Coating



- Specially designed for multifilament and multilayer films.
- White Masterbatch made from Rutile grade 30% to 75% TiO₂.
- Our Masterbatch used in major Polymer PE, PET, PC, ABS, Nylon.
- Suitable additives added in Masterbatch as per application.



- Excellent surface finishing with maximum opacity.
- Available with USFDA, AP 89 (I), EM 71 & DMF certification speciality for pharma application.
- Specially designed Masterbatch for outdoor application gives excellent weather fastness especially for shed net & mulch films etc.

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Colour Masterbatches & Functional Additives for Non Wovens Applications

With our clients, suppliers, and distributors, Samtone has helped us forge enduring connections because to its reliable quality and affordable solutions. They have placed their trust and confidence in us as a result of our capacity to collaborate with them and work to develop solutions that address their particular needs.



Hygiene Application



Medical Application



Non Woven Crop Cover



Geotextile

- White Masterbatches
- Black Masterbatches
- Medical Blue
- UV Stabilizers
- Optical Brighteners

- Antimicrobial
- Flame Retardant
- Anti-Static
- Anti-Oxidant
- Anti Algae

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Additives masterbatches



Oxo-Biodegradable Additive Masterbatch

OXO-BIODEGRADABLE MASTER BATCH is a range of masterbatches supplied to create a controlled and safe oxo-biodegradable effect in standard polyethylene and polypropylene films. Samtone Oxo Biodegradable MB has been used in agricultural mulch films, food packaging (PE, BOPP, CPP), and checkout bags (HDPE, LDPE).

Fragrance Additive Masterbatch

A wide range of fragrance masterbatches is available for incorporation into various polymer substrates.

Commonly used fragrances, such as Baby, Lemon, or Rose, are traditionally employed in the film industry for refuse and nappy sacks to conceal or mask malodours.

BOPP Film Modifier

BOPP film modifiers provide improvements in mechanical properties, which are useful for overlapping film, shrink packing, and labeling. They reduce the haze of PP film.

This Additive MB improves the saleability at lower temperatures of BOPP film.

BOPP film modifiers help increase the extrudability and stretchability of films.



Flame Retardant MB

Producing high-performance, UV-compatible, flame retardant masterbatches for use in injection-moulded and extruded ABS and polypropylene applications, offering UL94 V0 passes at low addition levels without significantly compromising impact strength and UV resistance properties.

Samtone Industries is testing FR Master Batch based on UL 94 vertical and horizontal tests, Federal Motor Vehicle Safety Standard (FMVSS 302), and Limited Oxygen Index tests.

Two types of Flame Retardant MB have been produced by Samet Plast:

1. Halogenated Flame Retardant MB - Especially bromine-based types of FR MB with antimony trioxide synergistic effects are usually the most cost-effective flame retardants. For effective fire resistance, they often require a lower loading than other flame retardants.
APPLICATION: Polyethylene and Polypropylene film.

2. Non-Halogenated MB: Two Types of Non-Halogenated FR MB.

- Phosphates-based Flame Retardant, especially for Polyurethane Foam, Polyamides, and Polyester, LLDPE, PP, and HDPE applications.
- Aluminium Trioxide-based FR MB for PVC Cables and LDPE applications.

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We offer a wide range of additive masterbatches for use in foam sheets, injection mouldings, profile extrusion, nets, and other applications. The additive masterbatches and their features are as follows:

Blowing/Foaming Masterbatch

These are compounds that decompose at elevated temperatures, forming gas and other inert components that expand the plastic material, giving it a cellular structure. This process offers weight reduction, better acoustical properties, improved insulation, as well as cost savings. These can be further divided into exothermic foaming agents and endothermic foaming agents. Exothermic foaming agents are typically used for larger parts, while endothermic foaming agents can be used for tapes, films, sheets, and the removal of sink marks in molded parts.

Antioxidant Masterbatch

These are typically organic compounds that slow down or completely prevent polymer degradation caused by oxidation. Degradation in the form of discoloration, changes in viscosity, surface crazing, and the loss of physical, mechanical, and optical properties can be avoided through the use of antioxidants. These situations usually occur due to the polymer's exposure to elevated temperatures during processing or long-term exposure to the environment. These antioxidants can be classified as primary antioxidants and secondary antioxidants, depending on their stabilizing effect over the polymer's lifespan.

Silicon Master Batches

This contains ultra-high molecular weight polydimethylsiloxane additives dispersed in polyethylene. Silicone masterbatch is primarily used in HDPE optical fiber ducts. This masterbatch provides lubricity, reduces the coefficient of friction, and improves abrasion resistance. Silicone masterbatch is typically used for high-temperature applications. Silicone masterbatch is also beneficial for rubber applications, such as shoes.

Anti-Bacterial & Anti-Microbial

Specialty antibacterial and antimicrobial masterbatch solutions are designed to meet a wide variety of application needs in the packaging, consumer products, and medical markets, including spunbond nonwoven fabrics and thin-layer applications (e.g., biaxially oriented or BOPP film), as well as molding articles. The Samet Plast antibacterial and antimicrobial product inhibits the growth of microorganisms that can cause odors, discoloration, the formation of mildew, or deterioration in the physical properties of plastics. Antimicrobial masterbatches protect against bacteria and fungi.

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Anti Rodent



Anti Rodent Additive Mb

Unique ANTI RODENT MB serves the purpose of preventing rodent attack to plastic articles like Cables, Wires, Drip irrigation pipes, Automobile cables, Garbage Bags, Mulch Film, Green house Film, Grain Bags, Warning Tapes etc.

Optical Brightener

- Reduces yellowing effect & improves whiteness & enhances brightness

Polymer Processing Aid

- Used to achieve fast and rapid production.
- Can be added 0.1% to 0.3% to enhance production output to 20 to 30%

Purging Masterbatch

- Removes plastic and colour residues from moulded dies and screw barrels, including residues caused by degradation.
- Provides a time-saving production process and fast changes of colours with minimal material wastage.



Anti-Fog Masterbatch

The term 'fogging' refers to the condensation of water vapor on the surface of a plastic film. In food packaging films, the droplets make the contents less visible and may reduce the quality of the packed product. In agricultural applications such as greenhouses, fogging affects the transmittance of light, causes burns on the crops due to the lens effect of the droplets, and results in continuous water dripping. Anti-fogging additive masterbatch helps resolve this issue.

Desiccant/Anti-Moisture MB

- Removes pre drying for injection moulding and woven sack applications

Slip Cum Anti-Block

- Additives for mono/multi-layer blown film which improves the opening characteristics of films/bags

Clarifying & Nucleating MB

- Reduces haze and increases the transparency of the injection moulded items

Antistatic Masterbatch

- Long lasting permanent antistatic property for the entire range of plastics

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Mono colour concentrate

Developed with special technology and unique additives, this product is manufactured in pellet form to provide excellent dispersion. It is used in fiber applications where dispersion is critical, and the high tensile strength of the product is important.



Samtone Industries recently achieved success in manufacturing Mono Colour Concentrates in pellet form, with pigment loadings of 40% to 50% mono organic pigments. Organic pigments, such as phthalocyanine, azo, disazo, quinacridone, etc., are generally challenging to disperse in polymer at higher concentrations. The formation of aggregates and agglomerates can lead to poor dispersion in film applications and screen blockages in mono and multifilament applications when higher concentrations are required.

Samtone Industries developed Mono Colour Concentrates using special technology and unique additives to ensure excellent dispersion. Our mono colour concentrates are used in applications where good dispersion is crucial, such as in fiber applications where master batch dispersion is critical, and high tensile strength of the fiber is important. This helps prevent screen plugging and enhances rheology.

Samtone Industries exports 90% of the total production of mono colour concentrates.

Special Advantages of Mono Colour Concentrate are:

- Mono colour concentrate masterbatches are 100% dust-free, so cleaning costs and material wastage are minimized. They produce minimal waste because no residue remains in packaging, resulting in the shortest cleaning times.
- Mono colour concentrate masterbatches have high coloring strength, and consequently, their addition levels are low. This way, coloring costs can be minimized.
- They provide excellent dispersion and reduce screen plugging compared to any other coloring material.
- Mono colour concentrate requires low energy to disperse in the given polymer at low shear.
- Mono colour concentrate has low energy consumption.

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Mono colour concentrate



Application

Non woven fabrics, Multi Filaments, Mono Filaments, Film application etc, .

SAMTONE PRODUCTS APPLICATION						
Product name	Code no.	Pigment ci Name	Physical Form	% organic Pigment.	Light Fastness	Heat Stability
Lemon Yellow	PE-301	Yellow 13	Pellets	40%	6-7	200°C
Golden Yellow	PE-302	Yellow 83	Pellets	40%	6-7	200°C
HT Yellow	PE-303	Yellow 191	Pellets	40%	8	300°C
LT Yellow	PE-304	Yellow 62	Pellets	40%	7	240°C
Orange	PE-305	Orange 13	Pellets	40%	6-7	220°C
HT Orange	PE-306	Orange 34	Pellets	40%	6-7	220°C
Brilliant Red	PE-307	Red 48:1	Pellets	40%	5-6	240°C
Tomato Red	PE-308	Red 53:1	Pellets	40%	3-4	240°C
Dark Red	PE-309	Red 57:1	Pellets	40%	5-6	220°C
Blood Red	PE-310	Red 170	Pellets	40%	7	260°C
MD Red	PE-311	Red 48:2	Pellets	40%	5-6	220°C
Bright Red	PE-312	Red 254	Pellets	40%	8	280°C
Bright Violet	PE-313	Violet 23	Pellets	40%	7-8	260°C
Bright Pink	PE-314	Red 122	Pellets	40%	8	300°C
Bright Magenta	PE-315	Violet 19	Pellets	40%	8	300°C
Brilliant Blue	PE-907	Blue 15:3	Pellets	40%	8	300°C
HT Blue	PE-908	Blue 15:1	Pellets	40%	8	280°C
Bright Green	PE-909	Green-7	Pellets	40%	8	300°C

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Solvent base Flexiblex Packaging Ink

All Resin Systems (Vinyl, PU, NC , Polyamide)



Toluene Based Products

- SAMPET LAM INKS suitable for Polyester Film
- SAMFILM POLY INKS suitable for LDPE, METPET, BOPP
- SAMBOPP EXTRUSION INKS suitable for PP and PE Extrusion Lamination with Fabrics
- Products for various packaging application
- Gravure & Flexo

Toluene Free Products

- HR PAPER INKS suitable for paper and AL foil printing
- SAMNC STAR INKS for CI Flexo printing

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Giving Life to **COLOURS !**



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