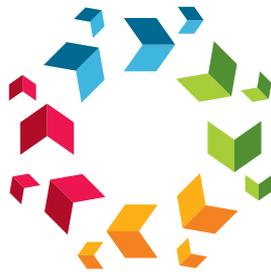


# MASKOM

MASTERBATCH & COMPOUND TECHNOLOGIES

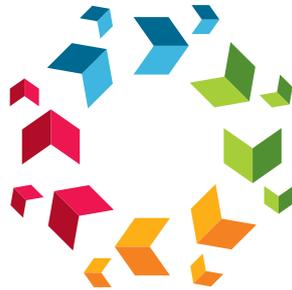


# MASKOM

MASTERBATCH & COMPOUND TECHNOLOGIES



*"Dominates where ever plastic is"*



# MASKOM

MASTERBATCH & COMPOUND TECHNOLOGIES



MASKOM  
MASTERBATCH & COMPOUND TECHNOLOGIES

is a subsidiary of



LIDARS  
Group



Setting out towards the target of making a mark as a prestigious brand dominating and creating solutions where ever plastic is, Maskom started its operations in 2007.

Production capacity is continuously increasing with the renewed technology investments every passing day. MASKOM continuing its activities at Düzce Gümüşova Industrial Zone by 100.000m<sup>2</sup> open area and 30.000 m<sup>2</sup> closed area; With its wide range of products and professionalism in production, it has signed many successful business signatures.

Through a wide product range consisting of Compound Filler, Color Masterbatch, Black&White Masterbatch , Additive Masterbatch and Flexo&Rotogravure Printing Inks.

In 2011, Maskom inaugurated a separate plant exclusively dedicated to manufacturing Black Masterbatches. A rare product in Turkey, this masterbatch is meticulously manufactured with original raw materials at Maskom plant. Maskom stands as the paramount manufacturer of Black Masterbatches in Turkey.

Managing the whole process, down to initial manufacturing, shouldered by a highly consolidated R&D staff, sales and marketing network, technical department and professional administration, each fully specialized in its own field, Maskom fully satisfies the expectations and gives a further edge to its customers thanks to its innovative solutions.

As a dynamic, progressively developing, consistent and a long-standing brand preserving the initial thrill and ambition, Maskom acts across a vision of adding value to customers, and sets its sights on achieving the predefined objectives through perpetuating and deploying its quality policy and keeping up with technology through a mission characterized with unceasing improvement of products and services.

## MANUFACTURING

Boasting an in-depth know-how and experience in each of its fields of operation, Maskom utilizes this huge background at every single step of the manufacturing process. While serving to distinct core industries such as packaging, greenhouse and agriculture, white goods, automotive, furniture and construction, the company maintains a constant focus on quality.

Manufacturing in its plants equipped with state-of-the-art machines and equipment, Maskom has achieved to upgrade its Masterbatch manufacturing capacity to 1000 tons/month, and Compound Filler manufacturing capacity to 10000 tons/month soon in partnership with broad R&D, technical taskforce, and sales and marketing network.

The manufacturing process relies upon double-screw extruders running on the gravimetric feed system.

## R&D

The in-house R&D department stands as a major source for developing innovative products qualified to meet market and customer demands.

Laying its focal emphasis on customer satisfaction, the company maintains its customer orientation after manufacturing as well.

Every time keeping one step ahead, Maskom advances in parallel to the flourishing technology and adds value to its customers through innovation, thrill of the very first day and the involvement of all departments.





**MASKOM**  
MASTERBATCH & COMPOUND TECHNOLOGIES

# PRODUCTS

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Compound Fillers

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Special Effect Compound Fillers

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Colour Masterbatches

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White Masterbatches

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Black Masterbatches

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UV Masterbatches

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IR&Diffuser Masterbatch

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Additive Masterbatches

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Printing Inks

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**MASKOM**  
MASTERBATCH & COMPOUND TECHNOLOGIES



CERTIFICATE NO. 10381



THANK YOU  
THANK YOU

- RECYCLABLE
- DEGRADABLE IN SUNLIGHT
- NON TOXIC WHEN INCINERATED

COMPOUND FILLER ▶

## COMPOUND FILLERS

These compound batches can be manufactured with various fillers including calcium carbonate, talc, glass fibre, barite, kaolin, etc.

As a general rule, these compounds guarantee an increase of 10-15% in extruders as thermal transfer coefficient and concentration of fillers is higher compared to polyolefins. Regular flow within the extruder secures dimensional stability of the film/profile. As friction is reduced, electrostatic behaviour is also enhanced. The material decrease the raw material cost, and improves thermal welding workability of polyolefins. Besides general compound filler production, Breathable Compounds, Non-Breathable Compounds, Nonwoven Compounds, Flame Retarder COmpounds for Cable Industry are also produced.

### COMPOUND FILLER PE

| PRODUCT CODE | PRODUCT DESCRIPTION         | FILLER TYPE | AREA OF APPLICATION                    | % UTILIZATION |
|--------------|-----------------------------|-------------|--|---------------|
| MD9071       | COMPOUND FILLER NATURAL     | CaCO3       | LDPE-HDPE FILM                         | 5-50          |
| MD9010       | COMPOUND FILLER NATURAL     | CaCO3       | CORRUGATED PIPE – PP BAGS – HDPE FILMS | 5-25          |
| MD9008       | COMPOUND FILLER NATURAL     | CaCO3       | CORRUGATED PIPE – PP BAGS – HDPE FILMS | 5-30          |
| MD9008-EXT   | COMPOUND FILLER NATURAL     | CaCO3       | HDPE FILMS                             | 5-60          |
| MD9100       | COMPOUND FILLER NATURAL     | CaCO3       | HDPE FILMS                             | 30-50         |
| MD9007-S     | COMPOUND FILLER TRANSPARENT | CaCO3       | HDPE FILMS                             | 15-35         |
| MD9007       | COMPOUND FILLER NATURAL     | CaCO3       | HDPE FILMS-BLOW MOLDING                | 50-70         |
| MD9007-EXT   | COMPOUND FILLER NATURAL     | CaCO3       | HDPE FILMS                             | 50-80         |

### COMPOUND FILLER PP

|        |                                 |             |  |       |
|--------|---------------------------------|-------------|--|-------|
| MD9200 | COMPOUND FILLER NATURAL         | CaCO3       | PP SACKS   | 5-30  |
| MD9205 | COMPOUND FILLER NATURAL         | CaCO3       | INJECTION  | 5-30  |
| MD9210 | COMPOUND FILLER NATURAL         | CaCO3       | PP SACKS   | 5-25  |
| MD9250 | COMPOUND FILLER NATURAL         | CaCO3       | PP SACKS - INJECTION                                     | 10-30 |
| MGE30  | GLASS FIBER REINFORCED COMPOUND | Glass Fiber | INJECTION<br>(GARDEN FURNITURE, AUTOMOTIVE, WHITE GOODS) |       |
| MGE40  | GLASS FIBER REINFORCED COMPOUND | Glass Fiber | INJECTION<br>(GARDEN FURNITURE, AUTOMOTIVE, WHITE GOODS) |       |
| MGP15  | GLASS FIBER REINFORCED COMPOUND | Glass Fiber | PP EXTRUSION   |       |
| MGP20  | GLASS FIBER REINFORCED COMPOUND | Glass Fiber | PP EXTRUSION   |       |

### COMPOUND FILLER PS

|        |                         |       |              |      |
|--------|-------------------------|-------|--------------|------|
| MD9308 | COMPOUND FILLER NATURAL | CaCO3 | PS EXTRUSION | 5-20 |
| MD9303 | COMPOUND FILLER NATURAL | CaCO3 | PS EXTRUSION | 5-25 |

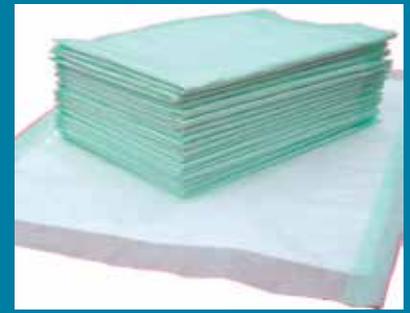
### SPECIAL EFFECT COMPOUND FILLER

|        |                         |      |                    |     |
|--------|-------------------------|------|--------------------|-----|
| MD9504 | COMPOUND FILLER NATURAL | Talc | PE ISOLATION FOAMS | 2-5 |
| MD9506 | COMPOUND FILLER NATURAL | Talc | PE ISOLATION FOAMS | 2-5 |
| MD9304 | COMPOUND FILLER NATURAL | Talc | PS FOAM            | 2-5 |
| MD9306 | COMPOUND FILLER NATURAL | Talc | PS FOAM            | 2-5 |

Customized compounds of desired coloured and fill rate may be manufactured based on customer demands and requirements.

# COMPOUND FOR NONWOVEN MASTERBATCH FOR NONWOVEN





Maskom Nonwoven Compound is designed as a Compound For Fiber and Nonwoven

## Maskom Nonwoven Compound Properties

### High Brightness;

Provides good whiteness color in fabrics

### Higher Density;

Reduces floating of agricultural applications and oil spill cleanup sorbents

### Higher Thermal Conductivity;

Results in faster throughput or reduce process temperature

### Increase Capacity ;

Higher mass throughput at the same volume can increase line capacity without capital investment

### Reduces Environmental Impact;

Reduced energy consumption in melting and bonding

### Increase Softness;

The increase surface roughness of fibers that contain MASKOM Nonwoven Compound gives improvement in haptics specifically in softness

### Cost Savings;

Cost is not directly related to oil and gas prices as PP, hence the price is not as volatile as PP. Utilization of MASKOM Nonwoven Compound can reduce the raw material costs due to its substantially lower price

# COMPOUND FOR BREATHABLE FILM



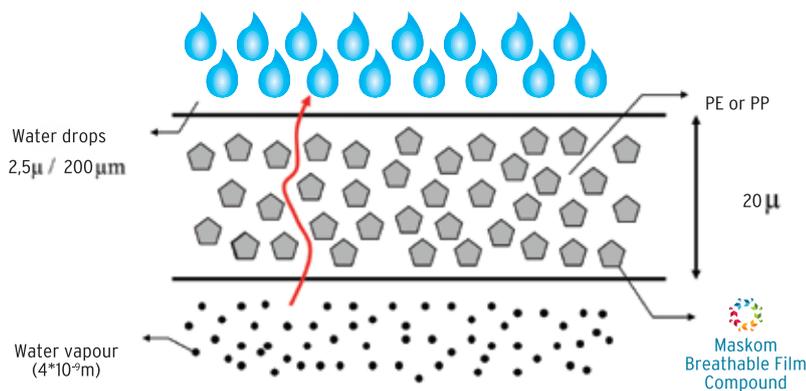
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## Maskom Breathable Film Compound Main Aims



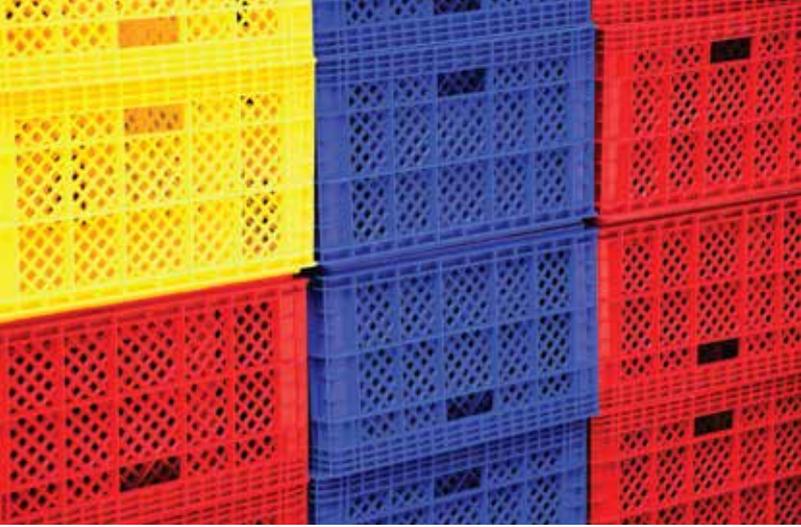
- To permit transmission of air and/or water vapour
- To provide a barrier to liquids

## Maskom Breathable Film Compound Properties

Whiteness • Narrow PSD • Thermal Stability • Hydrophobicity

## Maskom Breathable Film Compound Applications

- Hygiene; Infant diapers, Sanitary napkins & panty liners, Adult incontinence products
- Building; Under-tile roofing films, House wraps, Wall and floor covering



COLOUR MASTERBATCHES ▶



## COLOUR MASTERBATCHES

MASKOM manufactures colour masterbatches through the combination of high-performance organic & inorganic pigments and genuine polymer raw materials. Besides the PANTONE, RAL and MASKOM colour chart, new and distinctive requirements or customers samples are analysed at MASKOM laboratories under sophisticated machines and through stringent physical and chemical tests that are carried out by means of high-precision machines including spectrophotometry MFI ash testers run along sensitive methods for quality inspection.

The processes employing colour masterbatches so manufactured are injection, blowing, film, extrusion (film, sheet and profile), calender and rotation processes.

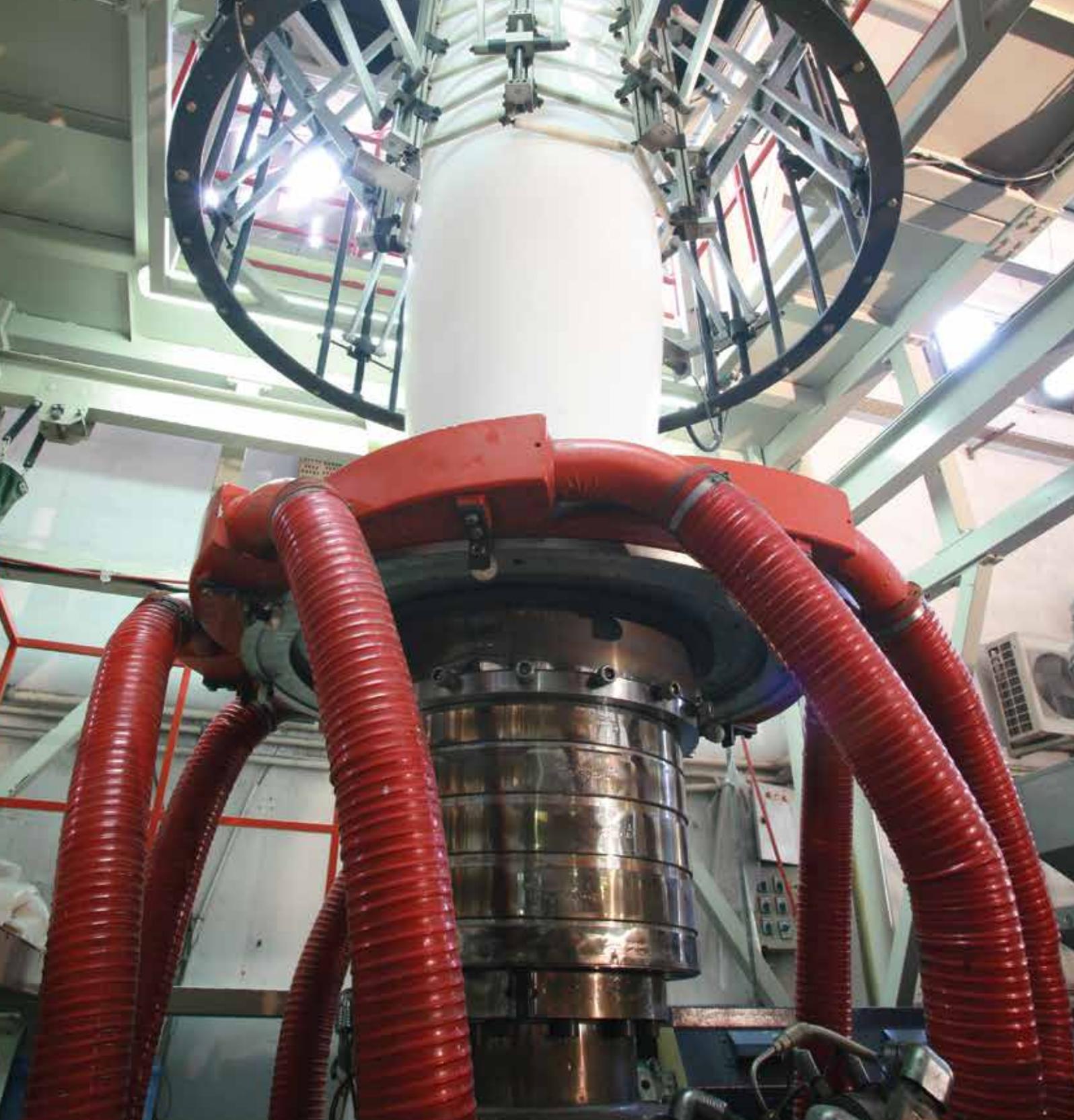
The colour masterbatches we manufacture can be employed in polyethylene, polypropylene, polystyrene, ABS, thermoplastics, EVA, engineering plastics and special compounds.

These masterbatches can further be utilized in any kind of packaging materials, household appliances, agricultural products, white goods, automotive components, any kind of pipes and tubes, toys, any kind of cables and wires (electrical, fibre), office equipment, sports garments, electrical and electronic products, furniture industry and construction industry.

Furthermore, based on customer requirements, we can further impart ultraviolet strength, flame retardancy, antistatic properties, antioxidant properties, blowing (foam) agent characteristics, process improvement capability, and enhanced impact strength to the colour masterbatches.

### **We are capable of manufacturing masterbatches dressed with special effects**

- Masterbatch with pearl effect
- Masterbatch with metal effect
- Masterbatch with granite and marble effect
- Silver masterbatch
- Transparent masterbatch
- Fluorescent masterbatch
- Aromatic masterbatch



WHITE MASTERBATCHES ▶



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## WHITE MASTERBATCHES

White masterbatches we manufacture have high opacity and gloss as well as superior technical and physical features guaranteeing perfect dispersion. These masterbatches can be manufactured in full conformance to distinct engineering polymers including PE, PP, HIPS, ABS, SAN, EVA, etc.

The white masterbatch line is comprised of filler and non-filler masterbatches with rutile-type titanium dioxide content designed in various concentrations and tones. The products are employed in injection, blowing, extrusion and other various processes.

### **White Masterbatch Varieties:**

- Standard white masterbatch
- Ice white masterbatch
- Extra glossy white masterbatch
- Unfilled white masterbatch





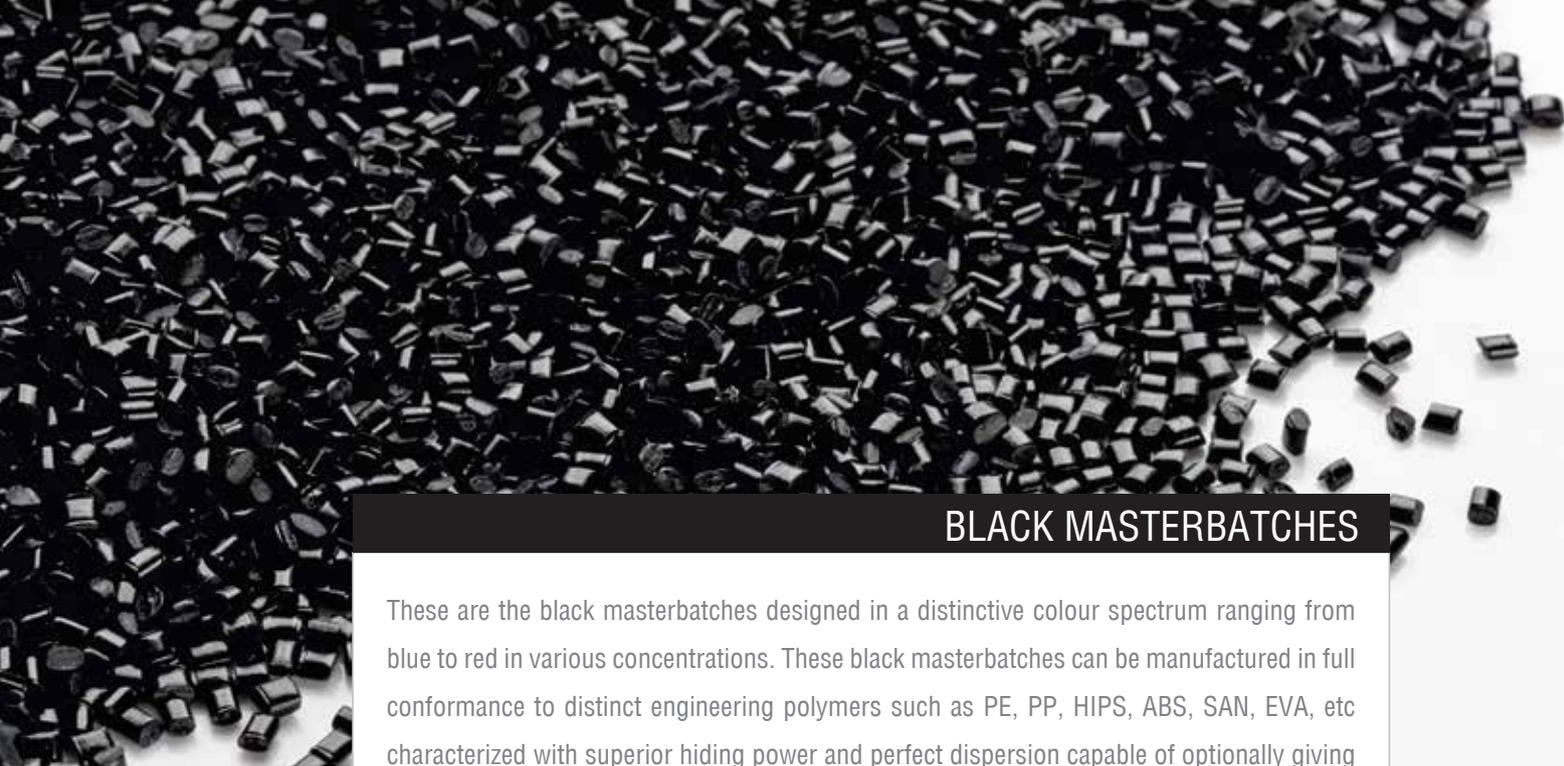
BLACK MASTERBATCHES ▶



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## BLACK MASTERBATCHES

These are the black masterbatches designed in a distinctive colour spectrum ranging from blue to red in various concentrations. These black masterbatches can be manufactured in full conformance to distinct engineering polymers such as PE, PP, HIPS, ABS, SAN, EVA, etc characterized with superior hiding power and perfect dispersion capable of optionally giving off mat or glossy effects.

| PRODUCT CODE | CARBON CONTENT | AREA OF APPLICATION  |
|--------------|----------------|--|
| M117272      | 50%            | INJECTION<br>BLOWING<br>EXTRUSION (FILM-PIPE-PROFILE)<br>PP RAFFIA |
| M117605      | 40%            |  |
| M117450      | 35%            |  |
| M117350      | 30%            |  |
| M117272-F    | 50% FDA        |  |
| M117615-F    | 40% FDA        |  |





UV MASTERBATCHES ▶



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## UV MASTERBATCH

It shows the refraction effect of sunlights within the polymer chain.  
It prolongs the useful life of plastic parts of film.

| PRODUCT CODE | ACTIVE MATERIAL    | CARRIER POLYMER | FDA |
|--------------|--------------------|-----------------|-----|
| M 85028      | HALS + A.O.        | PP              | NO  |
| M 85028-F    | HALS + A.O.        | PP              | YES |
| M 85029      | HALS + A.O.        | LDPE            | NO  |
| M 85029-F    | HALS + A.O.        | LDPE            | YES |
| MK 0501-E    | BLEND HALS + A. O. | LDPE            | YES |





UV & IR MASTERBATCHES ▶



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CERTIFICATE NO. 10381

## UV MASTERBATCH FOR GREENHOUSE COVERINGS

### M 85440

Employed in the manufacture of greenhouse coverings.  
Slow down the polymer chain-breaking effect of solar rays. Extend service life of the covering.

**ACTIVE AGENT** : 10% polymeric HALS 5% UV Absorber  
**COLOUR** : Light Yellow  
**DENSITY** : 0.91 g/cm<sup>3</sup>

### M 85945

Employed in the manufacture of greenhouse coverings. Slow down the polymer chain-breaking effect of solar rays. Extend service life of the covering. **It has a High resistance to pesticides.**

**ACTIVE AGENT** : 15%  
**COLOUR** : White  
**DENSITY** : 0.91 g/cm<sup>3</sup>

### M 85035 ANTIDRIP

Employed in the manufacture of greenhouse coverings and fresh fruit & vegetable bags.  
Prevent the humidity occurring due to temperature difference inside and outside the greenhouse from dispersing on the film surface and flowing towards the bottom side. Avoids dripping.

**ACTIVE AGENT** : 50%  
**COLOUR** : Transparent  
**DENSITY** : 0.91 g/cm<sup>3</sup>  
**FOR 2 YEARS** : 2%

### M 9660 IR MASTERBATCH

Employed as a heat barrier in greenhouse coverings. Slow down the outflow of radiation accumulated inside the greenhouse during the day. Temperature inside the greenhouse is higher by 1-3 centigrade degrees at night compared to coverings without IR barrier.

**RATE OF APPLICATION** : 6-10%

### M 9680 IR&DIFUZER MASTERBATCH

Together with an infrared barrier for greenhouse M9680 allow the homogenous diffusion of light in the greenhouse.

**ACTIVE AGENT** : 70%  
**RATE OF APPLICATION** : 8-15%

### UV MASTERBATCH

#### RECOMMENDED RATES OF APPLICATION

For 1 year : 1,5 – 2%  
For 2 years : 4%  
For 3 years : 6%



## ADDITIVE MASTERBATCHES ►



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CERTIFICATE NO. 10381

| PRODUCT CODE | PRODUCT DESCRIPTION         | ACTIVE AGENT                | ACTIVE % | AREA –PURPOSE - RATE OF APPLICATION  |
|--------------|-----------------------------|-----------------------------|----------|--|
| M 85006      | PE SLIP                     | OLEAMIDE                    | 7        | Employed as a lubricant in extrusion process at a rate of 1-3% Facilitates to thin film extrusion and seamless delamination. Allows extrusion at lower temperature and energy  |
| M 85007      | PP SLIP                     | ERUCAMIDE + OLEAMIDE        | 7        |  |
| M 85011      | PE SLIP / ANTIBLOCK         | OLEAMIDE + SYNTHETIC SILICA | 10       | Applied at a rate of 1-3% to yield the collective combination of the slip and antiblock effect   |
| M 85013      | PE SLIP / ANTIBLOCK         | ERUCAMIDE + NATUREL SILICA  | 15       | Applied at a rate of 1-3% to yield the collective combination of the slip and antiblock effect   |
| M 85424      | PE ANTIBLOCK                | SYNTHETIC SILICA            | 5        | Prevents agglomeration due to rolls wrapped before sufficient cool-down in thin film extrusion process, particularly during summer. Applied at a rate of 1-4%.   |
| M 85425      | PP ANTIBLOCK                | SYNTHETIC SILICA            | 5        |  |
| M 85031      | PE ANTISTATIC               | GMS                         | 7        | Plastic materials are charged with static electricity due to friction during the treatment, leading to higher dust collection and hindered batch process of automatic packaging machines. Applied at a rate of 1-3%.   |
| M 85033      | PP ANTISTATIC               | GMS                         | 7        |  |
| M 85091      | PROCESS AID (PPA)           | MICRONIZED TEFLON           | 3        | Guarantees uniform melting, low friction and smooth product surface for the extruder. Removes burns in dead zones of the extruder, avoids stripe and herringbone formation on the film.  |
| M 85092      | PROCESS AID (PPA)           | MICRONIZED TEFLON           | 2        |  |
| M 85023-1    | OPTICAL WHITENER            | OPTICAL BRT.                | 2        | The optical whitener enhances light reflection, particularly in white films and other white plastic parts to give a whiter look. Applied at a rate of 1-2%. White masterbatch may be used at a lower rate.   |
| M 85021      | OPTICAL WHITENER            | OPTICAL BRT.                | 3        |  |
| M 85041      | ABSORB of ODOUR MASTERBATCH | -                           | -        | It is used for mainly film application just to get rid of the smell that comes from mainly recycle polymer. Applied at a rate of 1-5% depending on product.  |
| M 85995      | FLEXI MASTERBATCH           | -                           | -        | The main purpose of flexi masterbatches; To increase the supply of high strength-filled film production, is used to reduce tear and stretch to give the effect of the product. Applied at a rate of 5-10% depending on product.  |
| M85036       | ANTIOXIDANT, MASTERBATCH    | ANTIOXIDANT                 | 10       | Delays impairment in the construction and appearance of polymer due to air oxygen and UV effect in parallel to the rate of application.  |
| M85037       | ANTIOXIDANT, MASTERBATCH    | ANTIOXIDANT                 | 20       |  |
| M85900       | PE TRANSPARENCY MASTERBATCH | -                           | 1        | Employed in polyethylene applications for film extrusions, rotary coating, thin-wall injection moulding and blow moulding processes. Gives extra charm to the packaged product as it avoids the misty look. Recommended rate of application is 1-3%. Active agents and polymer carrier are food grade. |
| M85915       | PP TRANSPARENCY MASTERBATCH | -                           | 1        | Enhances opacity in thin-wall polypropylene injection products. Applied when high opacity is demanded in plastic boxes, syringes, blow moulded products, bottles, feeding bottles etc. Recommended rate of application is 1-3%. Active agents and polymer carrier are food grade.                      |
| M85800       | ANTIGAS MASTERBATCH         | -                           | 70       | Employed as a dehumidifying and degassing agent in granule production. Particularly remedies the air problem frequently experienced in manufacturing second-class granules from printed LPDE. Also resolves air problem when ever suffered in rustling bags with calcite content.                      |
| M85027       | PURGE MASTERBATCH           | -                           | 50       | Used particularly to minimize wastage and time loss in colour transitions. Rapidly cleans the extruder screw.  |
| M750000      | FLAME RETARDANT MASTERBATCH | HALOGEN                     | 80       | Area of application is determined based on desired fire rating.  |
| M85701       | BIODEGRADABLE MASTERBATCH   | -                           | 10       | Facilitates to rapid biodegradability of the product.  |





PRINTING INKS ▶



**MASKOM**  
MASTERBATCH & COMPOUND TECHNOLOGIES



CERTIFICATE NO. 10381



## PRINTING INKS

Maskom has been offering printing inks of Sibax brand perfectly suiting Flexo and Rotogravure printing methods to customers along an in-depth know-how without sacrificing quality and across the philosophy of sustainable quality. A great spectrum of printing inks that can be used on myriad of packaging materials, suiting surface and reverse printing with high colour intensity, high heat resistance strength, perfect printing capability, low solvent retention, high gloss and high adhesion characteristics is available.

SIBALAM-SLM SERIES LAMINATION INKS

SIBAFLEX-SUB SERIES SURFACE PRINTING INKS

SIBADIA-DIA SERIES FOR SURFACE PRINTING INKS

SIBAMID-SPA SERIES SURFACE PRINTING INKS

SIBABASE-SP SERIES UNIVERSAL PASTES AND TECHNICAL VARNISHES

SIBATER-STA SERIES WATER-BASED INKS

SIBALAK-SLK SERIES ADDITIVES

## SOLVENTS

Our solvent products that seamlessly suit our inks are as follows:

- Isopropyl alcohol
- Sibanol
- Ethyl acetate
- Ethoxy Propanol
- Alcohol mixtures





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**G R O U P**



# MASKOM

MASTERBATCH & COMPOUND TECHNOLOGIES



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