



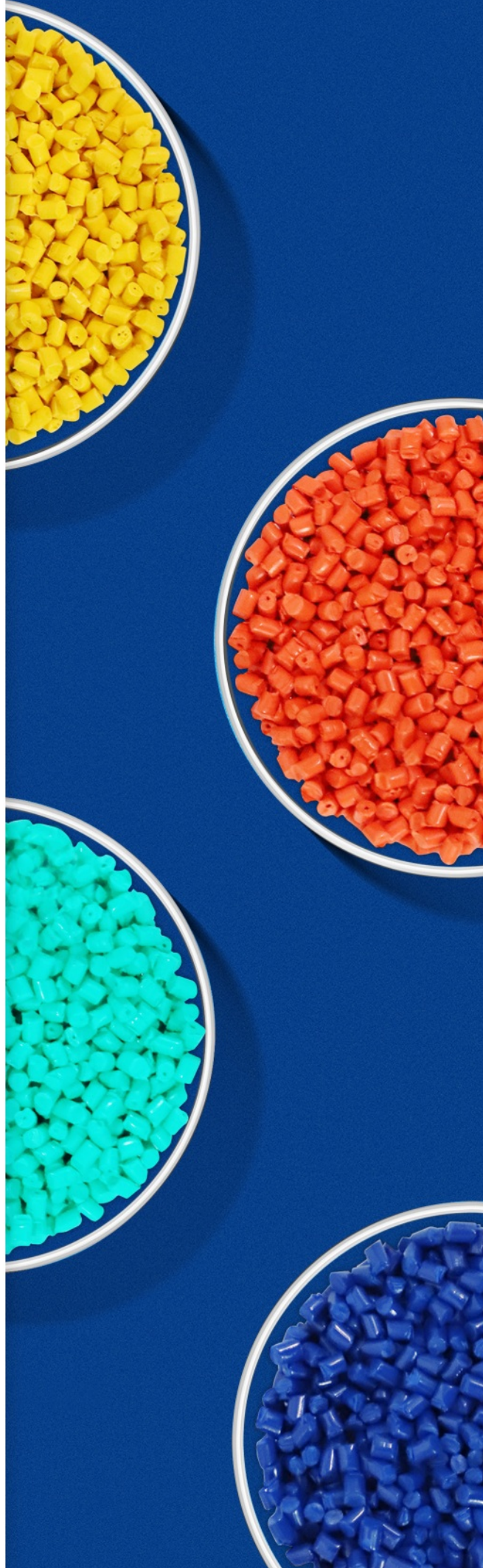
**Korea outstanding Masterbatch**  
**The best solution for your plastic goods**

PURSUING  
**COLORS**  
OF **DREAMS**

**SAMHWA**  
CORPORATION

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# WELCOME TO THE COLORFUL WORLD OF MASTERBATCH

## What is Masterbatch?

- Masterbatch is a kind of additives for plastic like a seasoning of food. It is added in the process of manufacturing of the raw materials (PE, EVA, PP, PET, PC, PVC etc) such extrusion or injection.

## Advantage of Masterbatch

- Masterbatch is highly concentrated and pelletized mixture of polymers and pigments. Its usage is not just restricted as a simple supplements. Nowadays, Masterbatch is recognized as a core ingredient that determines the final properties of the plastic products, also is making a wider impact on the use and performance of plastics as well.

### 01. Improvement of processibility

Compared to additives in a powder or liquid form, Masterbatch can be mixed more evenly with other raw materials thus it improves the viscosity and fluidity of plastic. As a result, customer can expect not only quality improvement also lower defects rate of processing.

### 02. Cost savings

Except increasing the volume of the products, Masterbatch delivers better thermal and mechanical properties so it decreases the dependence on engineering plastics. In other words, Masterbatch can reduce the various expenses.

### 03. Creation of high value-added products

In addition to coloring, blocking UV, antioxidant, Masterbatch facilitates the production of a wider range of product types in line with market trends. Tailored production and the addition of special features such as conductivity and magnetic induction are also possible with the use of Masterbatch, which increase the functions of plastics and contribute to the creation of high value-added products.

## BUSINESS AREA



### Packaging

- Packaging is one of the key markets for Masterbatch
- It is perfect for use in packaging for fresh and frozen foods and produce, prepared meal and milk etc.
- Function : Anti-oxidant, Anti-bacterial, Antistatic, Coloring, UV stabilizer/absorber etc.



### Construction

- Synthetic materials used in civil engineering and construction
- PVC, pipes, UV protection films, Geogrid, Geomembrane and HDPE Sheets
- Function : UV stabilizer/absorber, Durability, Coloring, Antistatic etc.



### Agriculture

- Mulching films, soil irrigation and drainage, etc.
- Function : UV stabilizer/absorber, Durability, Light shielding, Enhance organization structure etc.



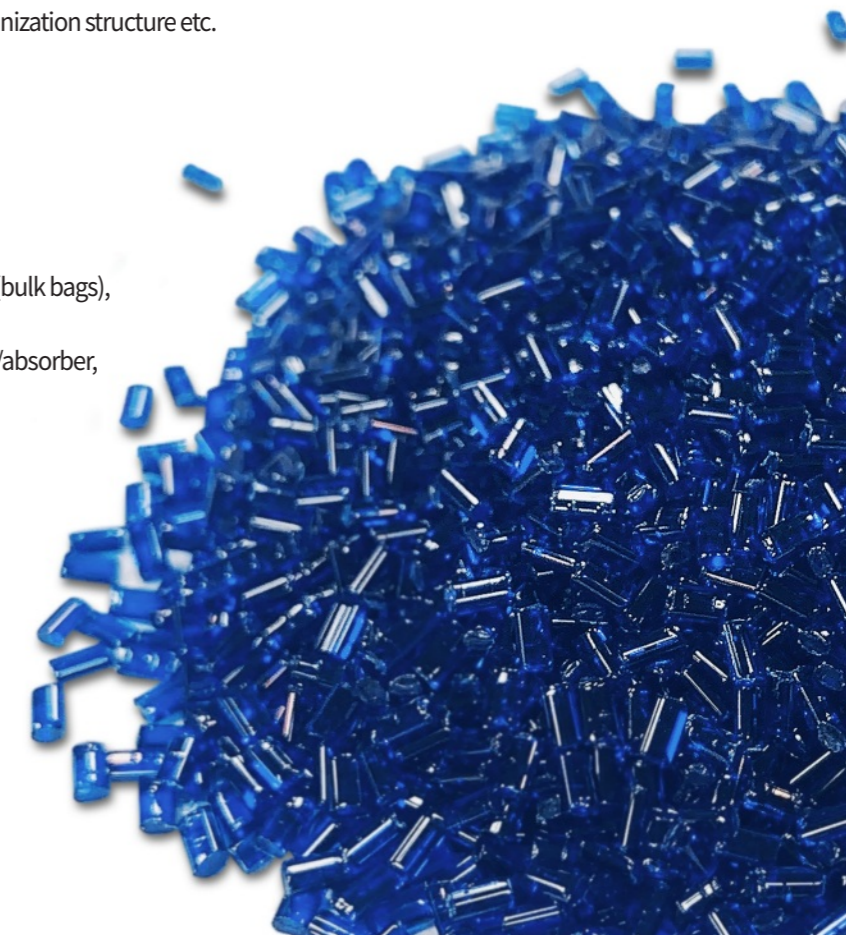
### Fibers

- Filament fiber, non-woven fabrics, FIBC bags (bulk bags), awning (tarpaulin)
- Function : Coloring, Spinnability, UV stabilizer/absorber, Light shielding, Dispersibility etc.



### Automobiles

- Various parts used in the interior and exterior of automobiles
- Interior and exterior components, hood
- Function : Coloring, Durability, Lustering, UV stabilizer/absorber etc.



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PERFORM  
YOU'LL BE**

**BETTER  
BETTER  
BETTER**

Enhance your competitiveness with SAMHWA



## BLACK & WHITE MASTERBATCH

Color	Grade	Polymer	Carbon Black	K-FDA	MFI	Light fastness	Applications
Black	PLA MB B001	PLA or PBAT	15~40%	◎	-	8	Bio resin Base.
	KL3151	PE	30%	○	M		Economic. General purpose.
	FK1001	PP+PE	34%	◎	H		PP multi-filament, High MFR
	K1048	PE	40%	○	L		General purpose. Thin HDPE film.
	KD4001	PE	40%	◎	M		General purpose. Film.
	KL5003AO	PE	50%	◎	M		High tech PE film. Mulching, Irrigation.
	KS4001	PS	40%	◎	L		For PS, General purpose.
	KB4002	SAN(ABS)	40%	◎	M		For SAN, ABS, General purpose.

L: Low | M: Medium | H: High

Color	Grade	Polymer	TiO2	K-FDA	MFI	Light fastness	Application
WHITE	FW9003	PP				8	PP multi-filament, high MFR
	W9197	PET	30%-R	◎	L		PET sheet and bottle.
	W9361	PE	30%-A	◎	L		Economic. General purpose.
	W9050-3	PE	50%-A	◎	M		Economic. General purpose.
	W9000	PE	70%-A	◎	M		General purpose, High whiteness
	W9324K	PE	70%-R	◎	M		General purpose, High opacity.
	WS26002	PS	60%-R	◎	M		For PS, General purpose.
	WB26001	SAN(ABS)	60%-R	◎	M		General purpose.

A: Anatase | R: Rutile | L: Low | M: Medium | H: High

※ The above data are for reference only. Please inquire us for proper recommendation based on the specific requirement.

# ADDITIVES & COMPOUND

## Functional Masterbatch

◎: Recommended | ○: Compatible

Category	Grade	Polymer	Extrusion	Injection	Film	Blow	Foaming	Note
Antibacterial	Z2102-3	PE	◎	◎	◎	◎	-	
Antiblocks	Z1027	PE	◎	-	◎	◎	-	
Antifogs	AF007	EVA	-	-	◎	-	-	
AntiOxidant	Z1073	PE	◎	◎	◎	◎	-	
AntiStatic	ASL105	PE	◎	◎	◎	◎	-	
Desiccant	Z1100	PE	◎	◎	◎	◎	-	
Delusterant	Z5014		◎	◎	◎	-	-	
(Halogenous) Flame retardant	Z1090	PE	-	◎	◎	-	-	
	Z1017		◎	◎	-	-	-	
	T300	PP,PE	◎	◎	-	-	-	
Nucleating(Foaming)	Z1007	PE	-	-	-	-	◎	
Nucleating(Foaming)	Z1037	PS	-	◎	-	-	◎	
Slip	Z1013		○	○	◎	-	-	
UV stabilizer	Z1019	PE	◎	◎	◎	-	-	
UV absorber	UV8251		◎	◎	◎	◎	-	
Processing Aid	Z5010	PE	○	◎	◎	-	-	
M. Calcium carbonate M	Z5004					-	-	

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## Compound

Silicone compound	Customized compound
Biodegradable compound	
Conductive compound	

# COLOR MASTERBATCH

IVORY 18187	IVORY 18190	IVORY 18177	IVORY 18193	BROWN BR8035	BROWN BR8024	BROWN BR8030				
YELLOW Y7338	YELLOW Y7173	YELLOW Y7075	YELLOW Y7231							
ORANGE O5009-2	ORANGE O5011-1	ORANGE O5044	ORANGE O5057	ORANGE O5092	ORANGE O5093	ORANGE O5043				
RED R4193	RED R4009	RED R4100	RED R4116	RED R4037	RED R4176	RED R4098	RED R4008			
PINK P4143	PINK P410	PINK P4046	PINK P1454	PINK P4144	VIOLET V4046	VIOLET V4045	VIOLET V4043			
BLUE B2439	BLUE B2434	BLUE B2104	BLUE B2064	BLUE B2101	BLUE B2435	BLUE B2316	BLUE B2189	BLUE B2190	BLUE B2262	
GREEN G3313	GREEN G3342	GREEN G3204	GREEN G3217	GREEN G3336	GREEN G3094	GREEN G3300-1	GREEN G3277			
WHITE W9008	GREY GR6027	GREY GR6209	GREY GR6073	GREY GR6082	BLACK K1048					

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Making **colors beautiful** and making **functions outstanding**  
Pursuing Colors of Dreams



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