

浓缩色母料 Masterbatch	聚烯烃色母料 Masterbatch for Polyolefin		白色母料 White Masterbatch
			黑色母料 Black Masterbatch
			彩色母料 Color Masterbatch
			液体包装膜专用色母料 Masterbatch for liquid-packaging films
	冰箱板材专用色母料 Masterbatch for Refrigerator board		普通板材级 Usual board grade
			耐候板材级 (ZL200810243981.7) <i>New</i> Weather-Resistant board grade
	工程塑料专用色母料 Masterbatch for Engineering Plastic		ABS、HIPS 色母料 (注塑级) Masterbatch for ABS、HIPS (For injection)
			PMMA 浴缸板专用色母料 Masterbatch for PMMA bathtub board
			PC 阳光板专用色母料 Masterbatch for PC sun shade
			PMMA、PC 灯箱板专用色母料(光扩散) Masterbatch for PMMA、PC light box (light-diffusing)
			PA 专用色母料 Masterbatch for PA
			PET 专用色母料 Masterbatch for PET
功能色母料 Function Masterbatch	阻燃色母料 Flame-retardant Masterbatch	阻燃色母料 Flame-Retardant Masterbatch for PE/PP/ABS/HIPS	<i>New</i>
		PP 高效阻燃母料 PP High-powered Flame-Retardant Masterbatch	
	PE 防雾滴母料	Fog-proof Masterbatch for PE	
	PE 防老化母料	Anti-aging Masterbatch for PE	
	抗静电母料	Antistatic Masterbatch for PE/PP/HIPS/ABS	
	开口母料	滑爽母料 Slipping Masterbatch	
		抗粘连母料 Anti-blocking Masterbatch	
		滑爽 - 抗粘连复合型 Slipping and Anti-blocking Masterbatch	
改性材料 Modified Plastic material	纳米 CaCO ₃ 母料		Nano- CaCO ₃ Masterbatch
	PC/ABS 合金材料		PC/ABS alloy
	无卤阻燃 PC/ABS 合金		Halogen-free flame-retardant PC/ABS alloy
	阻燃 ABS、HIPS、PP		Flame-Retardant ABS、HIPS、PP
	无卤阻燃 PP		Halogen-free flame-retardant PP
	耐热 PP、ABS		Heat-resistant Grade ABS
	亚光 (消光) ABS		light extinction ABS
	汽车专用改性材料		Modified plastic for automobile

Storing at the place Ventilate and drying: No more than 2 years from the data producing.

PE 母料使用推荐表 The using for PE Masterbatch recommended												
产品 类别 Sort	牌号 The models	应用领域 Application Field										备注 Remark
		薄膜 Film					挤出 Extrusion			注塑 Injection molding	吹塑 Blow molding	
		液体包装 packaging for liquid	重包装 Heavy Duty Shipping Sacks	涂覆 Extrusion Coating	流延 casting	HDPE 方便袋 HDPE Shopping bag	农地膜 agricultural film	板片管 Board, sheet, pipe	拉丝 Plastic weave			
白色母料 White	902 白 902 White	★	★	★	★	○	N	○	○	○	○	65% 金红石型 TiO ₂ , 高分散性, 无味 60% Rutile TiO ₂ , high dispersion, inodorous
	901 白 901 white	★	★	★	★	○	N	○	○	○	○	60% 金红石型 TiO ₂ , 高分散性, 低气味 60% Rutile TiO ₂ , high dispersion, inodorous
	特乳白 milk-White	N	N	N	○	○	N	○	○	○	○	乳白增白母料, 5% 金红石型 TiO ₂ Milk White, High optical brightener, 5% Rutile TiO ₂
	特磁白 chinaware White	N	N	N	○	○	N	○	○	○	○	磁白增白母料, 10% 金红石型 TiO ₂ Cyanine-tone White, High optical brightener, 10% Rutile TiO ₂
	8070 白 8070 White	×	×	◆	○	★	N	○	○	◆	◆	70% 锐钛型 TiO ₂ , 高分散性, 出口级 70% Anatase TiO ₂ , high dispersion, export Grade
	8050 白 8050 White	×	×	◆	○	★	N	○	○	◆	◆	50% 锐钛型 TiO ₂ , 高分散性 50% Anatase TiO ₂ , high dispersion
	8030 白 8030 White	×	×	×	○	★	N	○	○	◆	◆	30% 锐钛型 TiO ₂ , 高分散性, 增白型 30% Anatase TiO ₂ , high dispersion, optical brightener
	409 白 -1 409 White-1	×	×	×	○	★	N	○		◆	◆	25% 锐钛型 TiO ₂ , 高分散性, 增白型, 主要用于回收料生产产品的白度增加 Anatase TiO ₂ , high dispersion, optical brightener, Main for recycle material, improved whiteness
	616 白 616 White	×	◆	×	◆	◆	N	◆	◆	◆	◆	2000 目, 85% CaCO ₃ 填充母料, 分散性好 2000 mesh, 85% CaCO ₃ Filler Masterbatch, good dispersion
606 白 606 White	×	◆	×	◆	◆	N	◆	◆	◆	◆	1250 目, 85% CaCO ₃ 填充母料, 分散性好 1250 mesh, 85% CaCO ₃ Filler Masterbatch, good dispersion	
黑色母料 Black	PE 特黑 PE Black	◆	◆	N	★	◆	◆	○	★	○	○	20% 高色素碳黑, 非常好的分散 20% Carbon Black, good dispersion
	745 黑 745 Black	×	○	N	○	★	★	○	○	○	○	45% 高色素碳黑, 无 CaCO ₃ , 好的分散 45% Carbon Black, No CaCO ₃ , good dispersion
	040 黑 040 Black	×	◆	N	◆	○	○	★	×	★	★	40% 高色素碳黑, 好的分散 40% Carbon Black, good dispersion
	045 黑 045 Black	×	×	N	×	◆	×	◆	×	★	★	35% 高色素碳黑, 一般的分散 35% Carbon Black, normal dispersion
色彩色母料 Color Masterbatch		★	★	★	★	★	★	★	★	★	★	按照客户样品定制 As client order
★ 推荐 recommended ◎ 适用 be applicable ◆ 可以使用 Can be used × 不可以使用 Can not be used N 不需要使用 have no use for												

Masterbatch for liquid-packaging films

1. Use Area:

This Masterbatch is special made for liquid-packaging films, such as milk, juice, sauce, vinegar and so on. Its material and additive are all up to food grade. It has good dispersion and hiding power. It can make the film having high luster.

2. Technical Standard:

No.	Item	Standard
1	Appearance	Bright & clean surface, uniform size, uniform color & luster
2	Base resin MFR (190°C, 2.16Kg)	2.0 g/10min
3	Pigment type	Rutile titanium dioxide
4	Pigment content	60 %
5	Volatility(include water)	< 0.15 %
6	Odor	No

3. Usage

Add in PE resin according to the proportion and mix uniformly.

4. Storage

Conserve in ventilated and dry place and no more than two years from the produced date.

Nanometer CaCO_3 Masterbatch

1. Use Area:

We specialize in the production of nanometer CaCO_3 Masterbatch using superior nanometer CaCO_3 and PE. Our Masterbatch are made accurately through adequate dispersion. It has adequate NANO CaCO_3 high stretch strength, high dispersibility, no dust and particulate pollution. Adding 25%, the strength of film reduce less. It is the superior additive to decrease costs and to improve the product quality.

2. Physics & Chemistry Standard:

No.	Item	Standard
1	Moisture:	$\leq 0.15\%$
2	Density@23°C g/m ³ :	1.940
3	Base resin MFR (190°C, 2.16Kg)	2.0 g/10min
4	Additive Ratio :	5% ~ 60%
5	Base resin	LDPE
6	Compatible resin:	PP. PE. EVA.
7	NANO CaCO_3 :	85%

3. Feature:

1. Maintain original dynamics performance, crash resistant, improved size standard.
2. No-toxin, odorless, excellent durability.
3. Improving stability in size, low costs, no dust and particulate pollution, reducing costs.
4. Disperse easily, use directly after dilutedness,
5. Used in film production, well compatible with PE, less film crud, no film crud and vertical crack high printability
6. NANO CaCO_3 could be used in anti-blocking.
7. Used in injection and extrusion, good reinforcing effect, could improve size stability.

4. Application area:

FILM BLOWING — LDPE, LLDPE, HDPE Film Packing, Shopping bag, Garbage Bag, and other Plastic Film

Also be used in PE and PP Vessel, tool case, toys, cable, rope, wave, board, etc

工程塑料系列专用色母料

Concentrate color masterbatch for Engineering plastic

1. 使用范围 Use Area

本系列色母料适用于ABS、HIPS、PA、PC、PMMA的注塑、挤出制品的着色。具有色泽鲜艳，分散性好，具有优异的耐热性和耐光性，并可按照客户对产品色泽、性能的要求，配制功能性色母。

Such color masterbatch is suitable for ABS、HIPS、PC、PMMA injection and extrusive molding. It's easy to use, with strong coloring power, good light permanency and heat-resistance. We can offer the masterbatch according to your demand.

2. 产品分类 产品因载体树脂和用途不同分为 Product types

ABS 色母料 ABS color masterbatch	ABS 注塑级 ABS color masterbatch for injecting
	ABS 冰箱板专用 ABS color masterbatch special for refrigerator board
HIPS 色母料 HIPS color masterbatch	HIPS 注塑级 HIPS color masterbatch for injecting
	HIPS 冰箱板专用 HIPS color masterbatch special for refrigerator board
PC 色母料 PS color masterbatch	PC 注塑级 PC color masterbatch for injecting
	PC 中空板、阳光板专用 PC color masterbatch special for sun-shading board
	PC 通用挤出级 PC color masterbatch special for general extrusive
PMMA 色母料 PMMA color masterbatch	PMMA 注塑级 PMMA color masterbatch for injecting
	PMMA 浴缸板、灯箱板专用(光扩散剂) PMMA color masterbatch special for bathtub and ad. lamp-box (light-diffusing)
	PMMA 通用挤出级 PMMA color masterbatch special for general extrusive

3. 使用方法 Usage

按比例拌和均匀即可。 Mix it to according to the follow ratio.

4. 参考配比量 Reference Ratio

1:20~1:50 (用户可根据色泽要求，自行调配)。

1:20~1:50 (Users can mix it by their need according to color and luster)

5. 技术指标 Technical Standard

序号 No.	项 目 Item	指 标 Standard
1	外观 Appearance	表面光洁、大小均匀、色泽一致 Bright & clean surface ,uniform size, uniform color & luster
2	熔体流动速 Milt Flow Ratio g/10min	≥ 2.0
3	挥发份(含水分) Volatility(water included) %	≤ 0.5
4	耐热性 Heat-resistance	≥ 5 级 ≥ Level 5
5	着色强度 Color Power %	95~105
6	总色差值 Total chromatic aberration (CIE LAB)	L ≥ 55 Δ E ≤ 1.0
		L < 55 Δ E ≤ 3.0

6. 存储 Storing

存放于通风干燥处，自生产日不超过二年。

Storing at the place Ventilate and drying; No more than 2 years from the data producing.

冰箱板材专用色母料

New

The Masterbatch special for HIPS refrigerator board

1、产品介绍 Introduce:

我公司分别于1991年起生产冰箱板材用色母料和1997年开发了HIPS“冰箱板材专用色母料”，该产品的开发成功，填补了国内空白。在这之前，国内冰箱板材行业由原来使用国外进口专用染色料，价格很高，我们“冰箱板材专用色母料”开发成功，可以采取用通用挤出级原料加色母料方式生产冰箱板材，该方式可以降低材料成本每吨近千元。

我公司“冰箱板材专用色母料”获得国家发明专利，专利号：ZL200810243981.7。直接和间接使用我们母料的冰箱品牌有：新飞、海信、科龙、伊莱克斯、三星、LG、海尔、美菱、康佳。

We designed the Masterbatch “special for ABS refrigerator board” in 1991 and the Masterbatch “special for HIPS refrigerator board” in 1997. They fill up the market blank in china at that time. Before the refrigerator board manufactory used import Colored ABS and HIPS, whose price were very expensive. With the Masterbatch was designed successfully, we can use normal Extrusion-grade material adding the Masterbatch to produce refrigerator board. This way can reduce material costs nearly 1,000 Yuan per ton.

“The Masterbatch special for HIPS refrigerator board” was awarded State Invention Patent, Patent NO. ZL200810243981.7. Now, Main refrigerator manufacturer in China, such as Xinfei, Hisense, Kelon, Electrolux, Samsung, LG, Haier, Meiling and Konka, are using our Masterbatch.



新飞

Hisense

KELON 科龙

Electrolux

KONKA

Meiling

Haier

LG

SAMSUNG

2、产品分类 Product Type:

- 1、普通板材级 Usual board grade
- 2、耐候板材级 Weather-Resistant board grade (专利号：ZL200810243981.7)

3、参考配比量 Reference Ratio:

- 1:20~1:50(用户可根据色泽要求，自行调配)。
(Users can mix it by their requirement according to the color)

4、技术指标 Technical Standard:

序号 No.	项目 Item	指标 Standard
1	外观 Appearance	表面光洁、大小均匀、色泽一致 Bright & clean surface, uniform size, uniform color & luster
2	熔体流动速率 Melt Flow Ratio g/10min	> 3.0
3	挥发份(含水份) Volatility(water included) %	< 0.5
4	耐热性 级 Heat-resistance	5
5	着色强度 Color Power %	95~105
6	总色差值 Total chromatic aberration(CLELAB)	L ≥ 55 ΔE ≤ 1.0
		L < 55 ΔE ≤ 3.0

5、Storing:

- 存放于通风干燥处，自生产日不超过二年。
Storing at the place Ventilate and drying; No more than 2 years from the data producing.

PP 高效阻燃色母料

New

PP High-powered Flame-Retardant Masterbatch

1、产品简介 Introduce:

本产品利用新型反应型阻燃剂，在PP燃烧时，引发PP与阻燃剂的快速分解、交联，并与阻燃剂中是Br、P、N等发生复杂的化学反应，吸收和带走热量，具有良好的阻燃性能。与一般PP阻燃体系比较，阻燃剂用量少，烟雾小，对材料的力学性能影响小。

This product is compounding with the new reactivity type Flame-Retardant additive and PP resin. When PP is heated, It might initiate PP and Flame-Retardant additive degradation, Cross-linking, and it might be perplexing chemical reaction with Br, P, N the components in the Flame-Retardant additive. Compare with the common PP Flame-Retardant system, it is lower dosage of the Flame-Retardant additive, little smog, little effect for the physical property of PP material.

2、产品分类及及使用比例 Product Type and Reference Ratio:

产品型号 Product Type	适用范围 Use Area	使用比例 Reference Ratio	阻燃性 Determination of burning characteristics	
			垂直燃烧 Vertical Test	氧指数 Oxygen Index
PP FR02	均聚 PP Homo- Polypropylene	3~5%	V-2	>25
PP FR03	共聚 PP Co-Polypropylene	6~8%	V-2	>25
PP FR04	PP 无卤阻燃 For Halogen-free flame-retardant PP	12%	V-2	>25

3、技术指标 Technical Standard:

序号 No.	项目 Item	指标 Standard
1	外观 Appearance	表面光洁、大小均一、色泽一致 Bright & clean surface ,uniform size, uniform color & luster
2	阻燃性 Flame-Retardant	FV-1~ FV-2
3	熔体流动速率 Melt Flow Ratio	g/10min >4.0
4	挥发份(含水分) Volatility(water included)	% ≤ 0.3

4、存储 Storing:

存放于通风干燥处，自生产日不超过二年。

Storing at the place Ventilate and drying; No more than 2 years from the data producing.

Flame-Retardant color masterbatch

1. Use Area:

Such color masterbatch is fit for flame-retardant products whose basic resin is ABS (HIPS). It's not only good in flame-retardant, stabilizing & coloring, but also easy to use. It's an ideal special flame-retardant masterbatch for PP, PE, ABS, HIPS. Compare with flame-retardant material, the cost can be play down about 20%.

2. Usage:

Mix it to according to the follow ratio.

3. Reference ratio:

1:2.5-1:5(Users can mix it by their need according to flame-retardant products.)

4. Technical Standard:

No.	Item	Standard
1	Appearance	Bright & clean surface ,uniform size, uniform color & luster
2	Flame-Retardant	FV-0 ~ FV-2
3	Melt Flow Ratio g/10min	>2.0
4	Volatility (water included) %	≤ 0.5

5. Storing:

Storing at the place Ventilate and drying; No more than 2 years from the data producing.

Anti-aging masterbatch for PE

1. Use Area:

This color masterbatch is suitable for PE film, pipe, board or other PE product which needing anti-aging. Adding this masterbatch, Compare with natural PE, PE material life can be prolonged more. It is colorless and bright, It's an ideal coloring masterbatch for PE agriculture film and other outdoor products.

2. Usage:

Mix it to according to the follow ratio.

3. Reference ratio:

Type	Additive Capacity	Outdoor Service Life
FL-1	4~5%	1 year
FL-2	4~5%	2 year
FL-3	4~5%	3 year

4. Storing:

Storing at the place Ventilate and drying; No more than 2 years from the data producing.

Anlistatig color masterbatch

1. Use Area:

Plastic is easy to get together static because of its high bulk resistance. The static can catch up dust and make product dirty, it make product reprocess too difficult. When static catching up to some degree, it can make bursting in some area, it bring severeness harm to person and their belongings. Adding anlistatig color masterbatch to plastic, above can be avoided. We can follow the customer's require to offer all kinds anlistatig masterbatch. It set coloring and anlistatig to together, have been used in the product that is electron or electric unit, mine facility, top grade plastic product.

2. Technical Standard:

Product Type	Apply Material	Additive capacity %	Face resistance rate Ω	Test Standard
KJD-100	PE	1.2 ~ 2.5	$\leq 5 \times 10^9$	GB/T1410
KJD-200	PP	1.5 ~ 3.0	$\leq 8 \times 10^9$	
KJD-300	ABS	5.0 ~ 8.0	$\leq 8 \times 10^9$	
KJD-400	HIPS, PS	5.0 ~ 8.0	$\leq 8 \times 10^9$	

3. Storing:

Storing at the place Ventilate and drying; No more than 2 years from the data producing.

PE Anti-blocking and slipping agent masterbatch

1. Use Area:

This masterbatch is fit for plastic film. It can increase the anti-blocking and slipping performance of film. It can not affect the film surface performance, such as: printing, diaphaneity and hot enveloping.

2. Product Type and Reference Ratio:

Product Type	Category	Reference Ratio
K1	Slipping Masterbatch	1~1.5%
K2	Anti-blocking Masterbatch	1~1.5%
K3	Slipping and Anti-blocking Masterbatch	1~1.5%

3. Technical Standard for masterbatch:

No.	Item	Standard
1	Appearance	Bright & clean surface, uniform size, uniform color & luster
2	Base Resin MFR	g/10min 2.0
3	Volatility(water included)	% <0.5
4	Density (g/cm ³)	0.98~1.10

4. Storing:

Storing at the place Ventilate and drying; No more than 2 years from the data producing.