

FulColor®
劲 乘



塑料专用 金属颜料和无机颜料

Metallic Effect Pigments & Inorganic
Pigments for Plastics

铝条系列

Aluminum Pellets

劲乘金属颜料条是一种被设计用于塑料的固体铝条，为产品设计师提供了更为有效的工具和更大的设计自由度。这些颜料采用无尘、无害、低VOC的供应形式改进了保质期，提供了优异的金属辉度，闪烁感和遮盖力。同时我们可以根据客户需求定制产品。

FulColor aluminum pellet preparations are designed for an extensive range of aesthetic and functional plastics applications. These pigments provide superior brilliance, sparkle and opacity in a non-dusting, non-hazardous and low VOC delivery form with improved shelf life. We can tailor make for customers timely if needed.

编号 Code	粒径 D50 um	载体 Carrier	载体含量 % Carrier %	片状 Flake	PE	PP	ABS	PVC	PVDC	POM	PMMA	PC	PA	PS	PET	TPU
PE系列 / PE Series																
PE0501	5	PE Wax	30	CF	●	●	●	○	○	○	○	○	○	○	○	○
PE0901	9	PE Wax	30	CF	●	●	●	○	○	○	○	○	○	○	○	○
PE0601	6	PE Wax	20	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE1101	11	PE Wax	20	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE1201	12	PE Wax	20	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE1401	14	PE Wax	20	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE1601	16	PE Wax	20	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE2001	20	PE Wax	20	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE3001	30	PE Wax	30	SD	●	●	●	○	○	○	○	○	○	○	○	○
PE6001	60	PE Wax	30	SD	●	●	●	○	○	○	○	○	○	○	○	○
PE9001	90	PE Wax	30	SD	●	●	●	○	○	○	○	○	○	○	○	○

PE系列 / PE Series																
PE0506	7	PE Wax	30	CF	●	●	●	○	○	○	○	○	○	○	○	○
PE0902	9	PE Wax	30	CF	●	●	●	○	○	○	○	○	○	○	○	○
PE0606	6	PE Wax	30	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE1106	11	PE Wax	30	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE1206	12	PE Wax	30	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE1406	14	PE Wax	30	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE1606	16	PE Wax	30	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE2006	20	PE Wax	30	PS	●	●	●	○	○	○	○	○	○	○	○	○
PE3006	30	PE Wax	30	SD	●	●	●	○	○	○	○	○	○	○	○	○
PE6006	60	PE Wax	30	SD	●	●	●	○	○	○	○	○	○	○	○	○
PE9006	90	PE Wax	30	SD	●	●	●	○	○	○	○	○	○	○	○	○

可根据客户需求定制其他载体产品，如白油，环氧大豆油等铝颜料产品
We can tailor make other carrier products such as white oil or epoxidized soybean oil aluminum paste.

- CF: Corn flake 玉米片型
PS: Polished silver dollar 0光银元型
SD: Silver dollor 银元型
- Recommended 推荐使用
Limited Suitability 谨慎使用
Not recommended 不推荐



钻石银系列

Diamond Aluminum Pigment

钻石型铝片是全新的产品，它能像钻石般的从多个角度赋予您超级闪烁的效果。基于钻石型铝片的银沙是专门为降低留痕，开发高彩度的金属色而开发的。

Diamond aluminum pigment is completely new style aluimnum granules which offer you extremely sparkling effect from various angles like diamond. Silver granules powered by diamond type flake are designed for reducing flowing line, and developing high chromatic metallic colors.

编号 Code	粒径 D50 um	载体 Carrier	载体含量 % Carrier %	片状 Flake	PE	PP	ABS	PVC	PVDC	POM	PMMA	PC	PA	PS	PET	TPU
PE2106DSS	21	PE Wax	10-20	Diamond	●	●	●	○	○	○	○	○	○	○	○	○
PE3606DSS	36	PE Wax	10-20	Diamond	●	●	●	○	○	○	○	○	○	○	○	○
PE5506DSS	55	PE Wax	10-20	Diamond	●	●	●	○	○	○	○	○	○	○	○	○
PE9906DSS	99	PE Wax	10-20	Diamond	●	●	●	○	○	○	○	○	○	○	○	○
PE19001DSS	190	PE Wax	10-20	Foil	●	●	●	○	○	○	○	○	○	○	○	○
PE28001DSS	280	PE Wax	10-20	Foil	●	●	●	○	○	○	○	○	○	○	○	○

Recommended 推荐使用
 Limited Suitability 谨慎使用
 Not recommended 不推荐



明显流痕
Obvious Flow lines

Traditional Flake
 PE6001
 60um



无流痕
No flow lines

Diamond Aluminum
 PE5506DSS
 55um

工程塑料专用铝粉

Aluminum Powder for Engineering Plastics

由于工程塑料的特殊性，在使用铝浆或者聚乙烯蜡包裹的铝条给ABS, PC或PMMA着色时，经常出现冲击强度变差，注塑料花，分散差等各种问题。

劲乘特殊工艺处理后的铝粉，完全环保，为非危品，在硬胶ABS, PC, PMMA等中使用分散更好，耐冲击更好，减少注塑瑕疵。

With Fulcolor specially coating technology, the treated aluminum powder is non-DG goods and environmental-friendly. These aluminum powder are design for coloring engineering plastics and can solve many problems such as dispersion, injection defects while exhibiting excellent whiteness and metallic effect.

编号 Code	粒径 D50 um	片状 Flake	备注 Remarks
PC0509	5	银元型 Silver Dollar	遮盖力好，金属感强 Excellent hiding power and metallic effect
PC0609	6	银元型 Silver Dollar	遮盖力好，金属感强 Excellent hiding power and metallic effect
PC1409	14	银元型 Silver Dollar	遮盖力好，白亮度高 Excellent hiding power and whiteness
PC2009	20	银元型 Silver Dollar	白亮度高，金属感强 Excellent whiteness and metallic effect
PC3509	35	银元型 Silver Dollar	白亮度高，闪烁感好 Excellent whiteness and sparkling effect
PC5509	50	银元型 Silver Dollar	白亮度高，闪烁感好 Excellent whiteness and sparkling effect
PC9909	99	钻石银 Diamond	3D立体闪烁 Extremely sparkling from all angles

PC打板外观 Appearance of PC Panels



PE1406 PC1409

无明显不兼容
Compatible



PE1406 PC1409

PE蜡产品缺陷严重
Obvious incompatibility for PE wax product



PE1406 PC1409

PE蜡产品无法使用
Unable to use PE wax product

冲击强度测试 Impact Test

编号 Code	纯PC Pure PC	1%	3%	5%
PC1409(PC铝粉)	71.9	67.5	19.3	17.6
PE1406(PE蜡铝条)	71.9	19.9	15.3	13.4

PC1409添加量1%对PC料的物理性能无明显影响!

1% of pigment loading PC1409 has no obvious effect on the physical properties of PC material!

金属银珠光

Metallic Silver Pearlescent Pigment



金属银珠光是用特殊工艺包覆人工合成云母特制而成，具有优异的金属效果，并且具有优异的耐酸碱等耐化学性能。金属银珠光色相偏蓝，可以替代铝颜料或跟铝颜料混合使用。金属银珠光可以替代铝颜料，用于金属效果的阻燃项目。

Metallic silver pearlescent pigment is specially coated synthetic mica to exhibit high chroma and metallic effect. It exhibits excellent weather fastness and chemical resistance, especially acid and alkali resistance. Metallic silver pearlescent pigment can be used as replacement for aluminum pigment or mixing with aluminum pigment for excellent metallic effect and chemical resistance. Metallic silver pearlescent pigment can be used for silver gray colors in flame retardant products replacing aluminum pigment.

编号 Code	粒径 D50 um	备注 Remarks
PMS251	25	金属银，遮盖力好 Metallic silver, good hiding power
PMS551	55	金属银，闪烁度好 Metallic silver, excellent sparkling effect

玻璃珠光

Glass Based Pearlescent

玻璃基材珠光是用金属氧化物例如氧化钛和氧化铁等包覆玻璃微片的颜料。它被设计用于着色后具有高闪烁感的效果，这得益于高反射的玻璃基材。

Glass based pearlescent is coated by metallic oxide like titanium dioxide or iron trioxide. It is designed for strong colorful sparkling effect contributed by high reflex glass flake.

编号 Code	粒径 D50 um	包装 Package	备注 Remarks
PGW001	50-200	25	白色 White
PGW002	160-600	25	白色 White
PGW8201	20-100	25	白色 White
PGW801	100-500	25	白色 White
PGW901	100-700	25	白色 White
PGJ021	50-200	25	金色干涉 Interference gold
PGJ121	30-150	25	金色干涉 Interference gold
PGR041	50-200	25	红色干涉 Interference red
PGB061	50-200	25	蓝色干涉 Interference blue
PGG071	50-200	25	绿色干涉 Interference green

高光黑/钢琴黑

High Gloss Black Chips

FulBlack黑色色沙使用特殊的生产工艺将高色素炭黑均匀的分散在PMMA树脂体系中，分散后的炭黑最大粒径小于15微米。这中超级分散技术使高色素炭黑制作高光泽，高耐候，高耐迁移的塑料制品成为现实。此款色沙不含蜡，不影响塑料的机械性能和光泽。

FulBlack chips is high jetness black dispersed homogeneously in PMMA by special process. The maximum particle size of dispersed carbon pigment is less than 15 micron. It becomes true that you can produce high gloss, excellent weather fastness, no migration plastics by high jetness carbon black due to this supper dispersion technology. This black chips don't contain any wax and will not affect the resin mechanic properties and gloss.

编号 Code	供货形式 Delivery form	颜料 Pigment	载体 Carrier	分散粒径 um Dispersed Particle size
PMMA2017	黑色色沙 Black chips	炭黑 Carbon Black	PMMA	<15

耐冲击测试 Impact Test

Material	Impact resistance KJ/m ²
纯PC / Pure PC	60.2 ± 0.5
PMMA2017 1.0% in PC	60.4 ± 0.4

L value 测试

Material	L	b
MB 0.5% in PP	24.40	-0.01
PMMA2017 0.5% in PP	23.57	-0.42

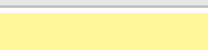
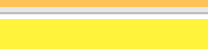


耐高温无机颜料

CICP/MMO

复合无机颜料是由两种以上金属氧化物经高温煅烧固相反应而生成的彩色混相晶体，主要金属食包括钴，铬，铁等过度金属元素，学术上也称之为煅烧颜料或者金属氧化物混相颜料MMO。CICP具有非常稳定的金红石型和尖晶石型晶体结构，这赋予其突出的性能，极强的耐热性、耐候以及耐化学性。CICP被广泛的用于塑料，涂料和陶瓷等领域的着色，是具有环保无毒的耐高温无机颜料。

CICP is crystallized color compound in solid solution produced by the calcination of two or more kinds of metal oxides including Co, Cr, Fe or such transition metal elements at very high temperature. It is also called calcined pigment or mixed metal oxides(MMO). CICP has a stable crystalline structure of rutile or spinel which provides outstanding properties as heat resistance, weather fastness and chemical resistance. CICP is widely used as colorants for ceramics, plastics and paints.

颜色 Color	颜料索引号 C.I.Name	编号 Code	耐高温(°C) Heat Stability(°C)	红外反射率TSR % (300~2500nm)
	Brown 24	钛铬棕 PIY2498	1000	60.90
	Brown 24	钛铬棕 PIY2466	1000	63.22
	Brown 29	铁铬棕 PIB2911	1000	23.50
	Brown 33	铁锌铬棕 PIR3308	1000	34.30
	Yellow 53	钛镍黄 PIY5300	1000	73.40
	Yellow 119	锌铁黄 PIY11912	350	41.9*
	Yellow 184	铋黄 PIY18403	300	81.1*
	Green 17	铬绿 PIG1709	800	44.27*
	Green 50	钴绿 PIG2872	1000	32.31
	Blue 28	钴蓝 PIL2801	1200	45.06
	Blue 36	钴蓝 PIL3602	1200	39.08*
	Black 26	锰铁黑 PIB2611	800	7.70*
	Black 28	铜铬黑 PIB2864	750	4.50
	Black 28	铜铬黑 PIB2865	750	3.84
	Black 33	锰铁黑 PIB3305	500	7.3*
	Hybrid	复合颜料 PIY1847	280	
	Hybrid	复合颜料 PIY2070	250	
	Hybrid	复合颜料 PIR3061	350	
	Hybrid	复合颜料 PIR9011	320	
	Hybrid	复合颜料 PIR9012	320	
	Hybrid	复合颜料 PIR9013	320	

* 400~1400nm测试

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湖北劲乘新材料有限公司

地址：湖北省黄冈市黄梅县小池镇临港北路2888号

上海劲乘新材料有限公司

Add: 上海市闵行区银都路588号5007室

Tel: 021-54388960

上海 | Shanghai

李经理: 18121323367

四川 | Sichuan

胡经理: 18117484959

浙江 | Zhejiang

吴经理: 18521056893

广东 | Guangdong

彭经理: 18117433912

江苏 | Jiangsu

邱经理: 18521056882

国际业务 | Ariel Lee

电话/Tel: +86-18121323367

Email: ariel.lee@fulcolor.net