CATALYZE CHAIN WALKING

HIGH-PERFORMANCE POLYOLEFINS FOR PLASTIC FILM

CATALOG

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ABOUT US

Established in 2019, CCW (Catalyze Chain Walking) is an innovative high-tech enterprise specialized in advanced polymer's development and commercialization.

As a National high-tech enterprise , CCW continuously participated in the development of 4 national standards, owned 7 patents (focus on advanced polymer).

CCW has a long-term university-industry cooperation with USTC , Sun Yat-Sen University,and Guangdong Pharmaceutical University, committed to the design, development, commercialization of polymer.

Indeed CCW has two business plates and the commercialized one is advanced polyolefins for plastic film (BOPP/CPP/CPE/IPE/IPP/BOPE) , which is focus on plastic film's Reduce , Reuse and Recycle , the other is conjugated Polymer, such as P3HT ,which is an alternative semiconductors with excellent optoelectronic properties , low cost and ease of fabrication for solar cells.

With the polymer materials , we aim at improve the environment and promote the new energy revolution , committed to the national new energy's development and the "dual carbon" strategy.

Contact our team today to find a solution for your business.

MATT MASTERBATCH
FOR CPP BOPP BOPE

CCW has developed a wide range of Matt Masterbatch for different thickness of plastic film produced in blown, cast or coextrusion processing. The excellent high haze finish and soft touching feel gives the brand a value added image to the clients for paper lamination and flexible package business.

Advantages:

- High haze and even in size
- Excellent rheology for easy processing
- Reduced die build up and increase the capacity effectively

Code	Benefits	SIT	Application	Dosage（%）	Low Gloss	Haze
M8015	Low SIT （≤115℃）, high haze（＞70%）, good dispersed , good processing property	≤115℃	CPP	Skin Layer:50	+	+
M8025	Cost performance optimization,Medium SIT （≤120℃）	≤120℃	CPP	Skin Layer:50	+	+
M8075	High haze, high temperature resistance (SIT≥160℃), good processing property	≥160℃	CPP	Skin Layer:100	+	+
M8135	Soft touching / velvet finish , high haze and good dispersed.	122℃	BOPP	Skin Layer:100	++	++
M8035	High haze(＞75%),excellent matte layout , high melt index（4.0）, extra low die build-up , less silver (or bright) defects.	122℃	BOPP	Skin Layer:100	++	++
M8035-CR	Attractive matte appearance,outstanding cold seal release properties	122℃	BOPP	Skin Layer:100	++	++
M8045	High haze, high temperature resistance (SIT≥145℃), good processing property	≥145℃	BOPP	Skin Layer:100	+	+
M8065	Low SIT(≤105℃) , high haze, good dispersed , good processing property	≤105℃	BOPP	Skin Layer:100	+	+

Code	Benefits	Application	Dosage（%）	Low Gloss	Haze
DF802	High haze(≥85%), excellent matt properties, no inorganic ingredients, non migration	CPE/IPE	Skin Layer:100	++	++
DF803	Higher haze, good processing performance, with inorganic ingredients, cost performance optimization	IPE	Skin Layer:25	++	++
DF806	PE carrier, high haze, good dispersed , matt finish evenly in edges, high temperature resistance , soft touching	BOPE	Skin Layer:100	++	++

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ANTISTATIC MASTERBATCH
FOR CPP BOPP

CCW Antistatic Masterbatch is used for treatment of materials or their surfaces in order to minimize or eliminate buildup of static electricity. CCW developed an exclusive formulation with 70% effective concentration , the addition rate is much less than market standard under same antistatic effect.

Advantages:

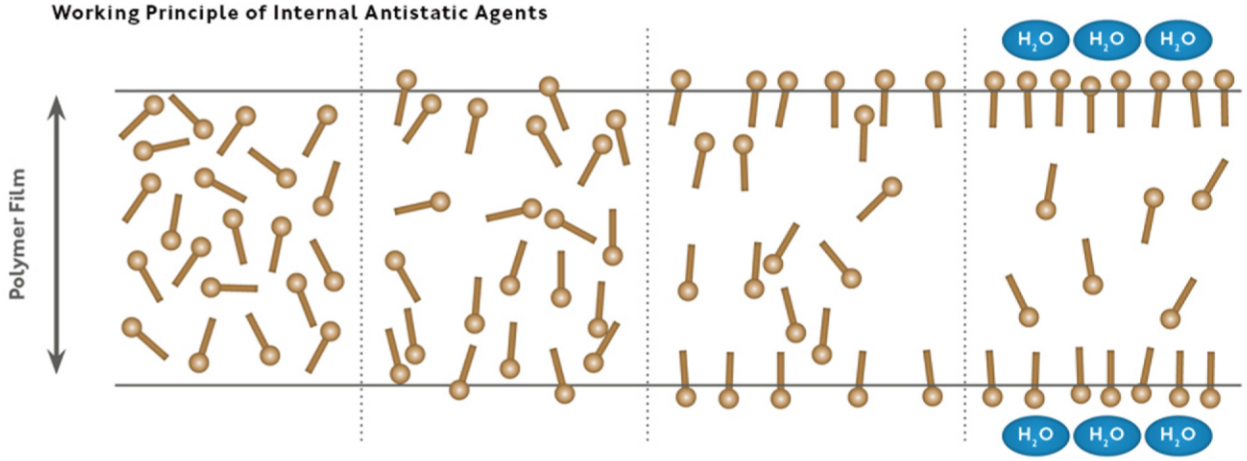
•Excellent dispersion on films

•Lower the surface resistivity values

•Prevent dust and other dirt attraction

Code	Effective Concentration (%)	Benefits	Application	Dosage (%)
PP AS4030	75	Migratory, high concentration	BOPP/CPP	Core Layer:0.3-0.5
PP AS4020	20	Long lasting, high effective, eco friendly, Synengistic effect	BOPP/CPP	Core Layer:0.5-1.5
PP AS8625	10	Non-migrating, surface addition, permanent	BOPP/CPP	Skin Layer:8-15

Working Principle of Internal Antistatic Agents



Phase 1
After the extrusion process a homogeneous distribution of the antistatic agent is obtained.

Phase 2
Migration of the antistatic agent to the polymer surface begins.

Phase 3
The polymer surface is covered by antistatic agent after hours or days.

Phase 4
Moisture from the surrounding air is attracted by the polar side of the antistatic agent giving the desired antistatic properties.

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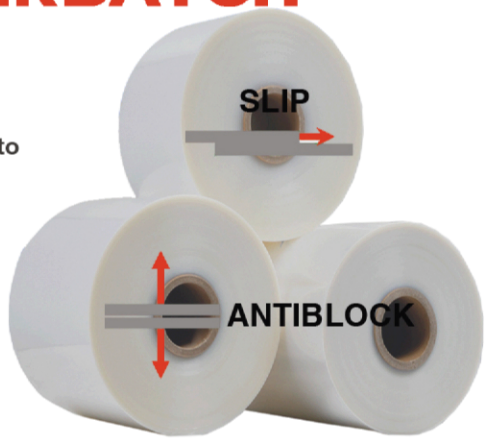
SLIP/ANTIBLOCK MASTERBATCH

FOR BOPP CPE BOPE



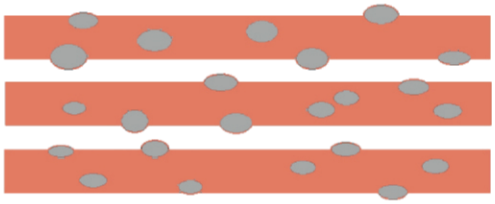
Slip masterbatches are added to films reduce surface COF and are used to enhance printability, processing and application. With the Antiblock masterbatches , we can get two smooth layers of film and lessen adhesive. Combined masterbatch with Slip and Antiblock function are available and can be custom formulated to meet specific application.

Advantages:

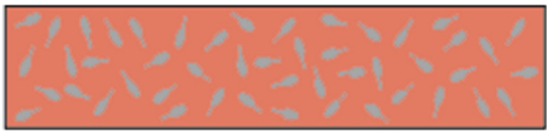
- Lessen the adhesive
- Reduce the surface COF
- Enhance printablility,processing and application

Code	Effective Concentration (%)	Benefits	Application	Dosage (%)
PP AB4520	20	Good dispersed , High concentration , high clarity	BOPP	Skin layer:1-5
PP AB1010	10	Hard to peel off , high concentration , narrow range of silica	BOPP	Skin layer:1-3
PP AB1005	10,5	Antiblock / Slip compound , high clarity and high effective	BOPP	Skin layer:1-3
PE AB1020	20	Good dispersed, high concentration, low haze	BOPE	Skin layer:1-5
PE KS5338	20	Non-migrating, skin layer addition, large molecular weight organosilicon	CPE BOPE	Skin layer:2-8

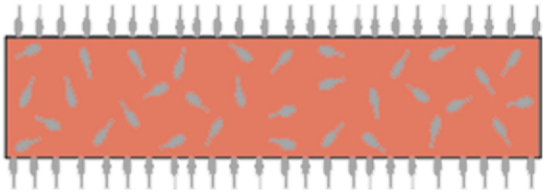
Film with Antiblock Masterbatch



Slip Masterbatch in bulk Polymer



Slip agents migrated to the surface



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SPECIALTY POLYMER

FOR BOPP CPE IPE IPP BOPE

CCW polymers are designed align with the market demand, BOPE polymer, working under Co-extruded Biaxially Oriented process, with a mono-material structure for flexible package.AC1036 , a primer free polymer in PP based , eliminate the melting issue with the previous PE based polymer, contact with us to find out more innovative polymer for your business.

Code	Benefits	Application	Dosage (%)
PE1025	Good heat resistance performance , excellent biaxially oriented processing , good stiffness，shrinkage rate:≤2.5%(120C° 2 minutes)	BOPE	Skin Layer/Core:100
PE1125	Good heat resistance performance , excellent casting processing , high strength , retort grade	CPE/IPE	Skin Layer/Core:100
AE1036	PE based , primer free material, excellent biaxially Oriented machinability, Good bonding strength with EVA	BOPP	Skin Layer:100
S0095	Ultra low sealing initiation temperature （95℃）terpolymer	BOPP/CPP	Skin Layer:100
LX3680	PP Toughness enhancer	CPP	Core Layer:10-20
EV1601A	bonding strength enhance master batch for thermal lamination film, good dispersed mixed with EVA	BOPP	10-20%

THERMAL FILM:

General Processing:BOPP Film // AC Adhesive // EVA

PE based Polymer
Good adhesive strength with EVA

Primer Processing: BOPP Co-extruded Film // EVA

Laminated with Paper

AE1036 is a primer free polymer,a functional material with good compatibility with PP and EVA, in the production of BOPP film,this functional layer is obtained by adding the AE1036 to the skin layer of the film and co-extruded at once. While melting and coating the EVA , the high melting temperature (220-230℃) also make the functional layer material melt,the film and EVA are bonded together at the interface,improving the bonding strength of EVA and BOPP film,and achieving the underlying film without the need for primer treatment, can be directly used for the purpose of composition with EVA.

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TAILORED DEVELOPING SERVICES

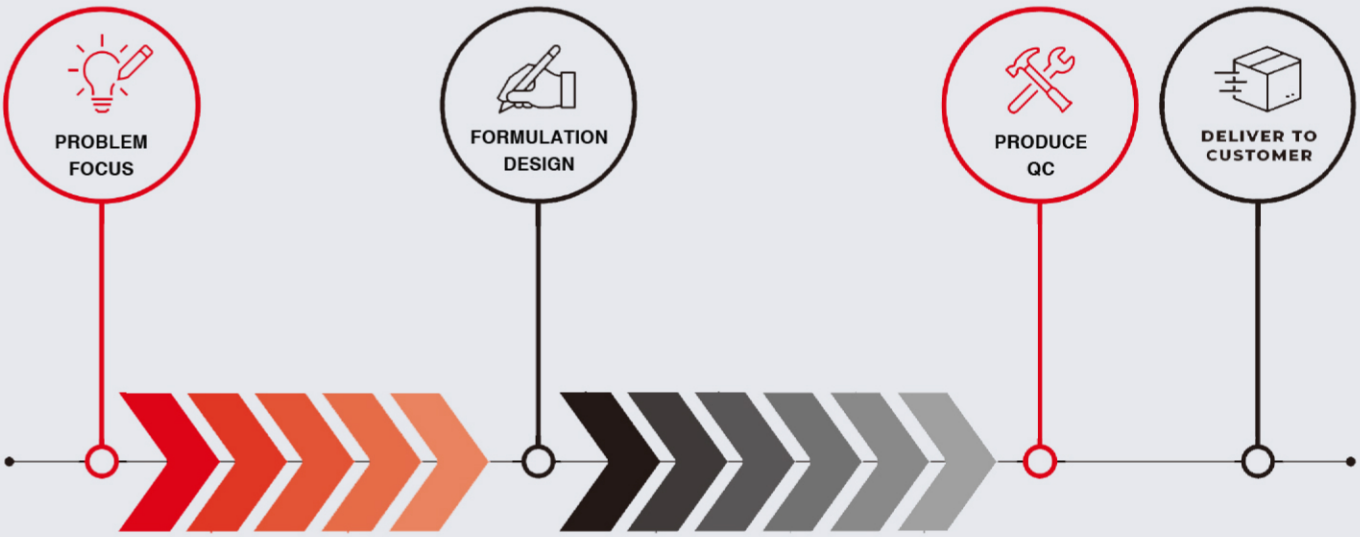
Specialising in supply innovative and differentiated solutions to enhance the film properties,increase sales,improve margins,and reduce cost.

WHAT ARE OUR CAPABILITIES?

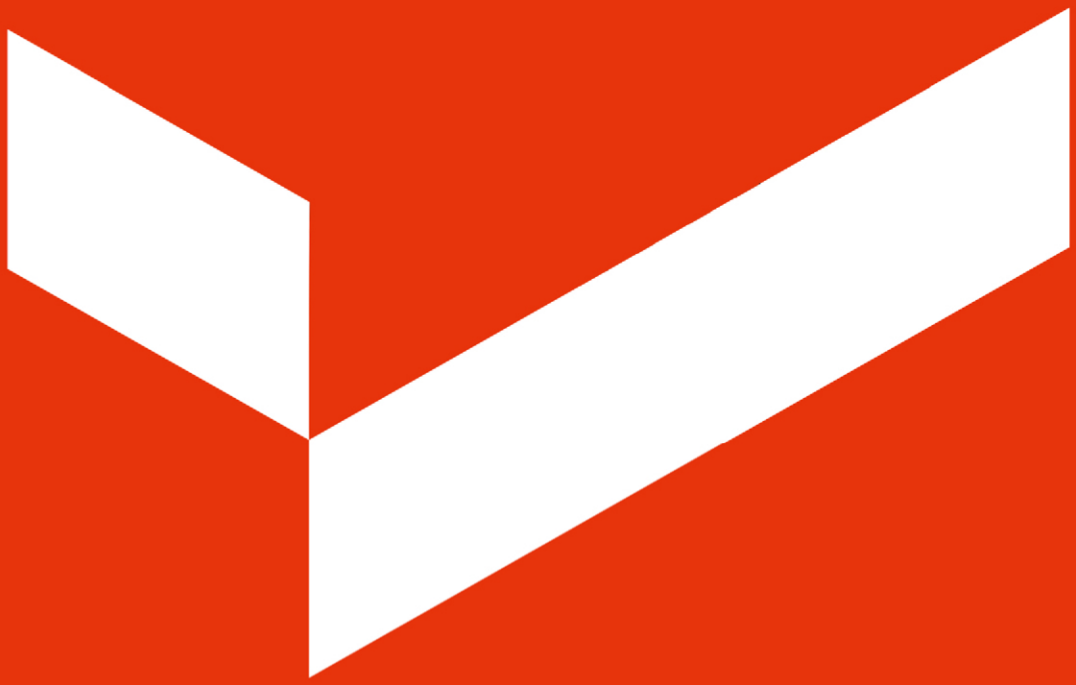
- The million-level laboratory with industry-leading R&D team ,Extensive experience in whole process of polymer development, commercialization and quality control.

- Fully automatic production plant with loss-in-weight feeder and modern underwater cutting facility to ensure and continually improve the product quality.

- Deep ploughing the polymer material ‘s manufacture and development has enabled CCW to maintain our position at the leading edge of technology.



Contact us to find out how we can work together to solve your problem.



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