



**Optimizing BOPP/CPP film production with CONSTAB®
Masterbatches and Compounds**

BOPP/CPP



Working together for the future of plastics.



Kafrit Group is a leading producer of Masterbatches and Compounds for the plastics industry and currently employs more than 470 people. In 2021, the Group achieved USD 302 million \$ turnover with an available capacity of more than 120,000 MT. Moreover, the company is active on a global scale and has set up production sites all over the world.

All of this began in 1973 when the company was founded in Israel. Since then, the company has grown primarily via acquisition.

Today, the Kafrit Group incorporates **Kafrit Industries (1993) Ltd. in Israel, CONSTAB Polyolefin Additives GmbH in Germany, China's Suzhou Constab Engineering Plastics Co. LTD, Polvfil Inc. in the USA, the Canada-based Kafrit NA Ltd. and Addvanze AB in Sweden.** With more than 50 years of experience in the plastics processing industry, the company can draw on high levels of expertise and technical know-how. Kafrit Group places a high value on sustainability and has made it to one of the cornerstones of our corporate strategy.

Our unbridled dedication to environmental, social and financial issues makes us to one of the leading business partners in the plastics industry. Our customers value our passion and appreciate our ecological awareness and social commitment. Moreover, they recognize our world leading services and consider our products as among the best within our industry.

We develop and produce cost-efficient solutions which will enhance the completion of high-quality end products in many areas of the plastics industry, such as packaging films (BOPP, BOPE, CPP, PE), PC sheet, agricultural films and derivatives, biopolymers, flame retardant applications, PEX, pipes, fibers and nonwovens.

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 Kafrit Group production sites  Agencies/Distribution

Our Purpose

Unite talent and technology to drive the future of plastics, together.

This purpose is the driving force of our organization. The reason we do what we do, why we come to work every day. And although our group is made of many different Companies around the world, our purpose unites us.

These three pillars support our purpose

TOGETHER TO THE FUTURE

The world doesn't stand still, and nor do we. We're always looking ahead, searching for new ways to sustainably grow and thrive. To push our technology and keep working on the next generation of solutions to benefit our customers. Working together in perfect synergy to achieve something great, today and tomorrow.

TALENT

Around the world, we have hundreds of talented colleagues and partners. All with unique skills, multidisciplinary knowledge, and deep industry experience. Innovators with brilliant ideas and the drive to see them through. People striving for excellence in everything they do.

TECHNOLOGY

After decades in the plastics industry, we have more than high levels of expertise, a strong focus on customer service, and vast technical knowledge. We also have a burning passion for innovation and transformation. A passion that drives us to seek out new solutions, new machinery, and fresh ways to give our customers just what they need.

Together we have the power to drive the future of plastics – within our community and around the world. And we'll keep doing it, today, tomorrow and always.

But the real magic happens when we work together. There's a spark, an energy. A belief that anything is possible. And that's how we provide the best solutions for our customers.

And with the latest technology in our hands and new innovations within our grasp, there's only one question. How far can we go?

Defining new production goals

Experience the new high performance products

Research that takes us to the top

Throughout our company history, research and development have always been a key area of our expertise. Kafrit employs a staff of more than 470 people that work on innovative products and make use of our vast pool of knowledge that we developed in 50 years of experience in the plastics industry. Our experts optimize and develop additive concentrates, flame retardants, color concentrates, and compounds for various applications.

Kafrit enjoys a close partnership with renowned research institutions at the Shenkar University in Israel and at different universities in Germany. Moreover, we maintain a strong co-operation with well-known suppliers including machine manufacturers that do recommend our products for use in combination with their machines.

About Us

Forging ahead for 25 years, Suzhou Constab Engineering Plastics Co., Ltd. has been a leading manufacturer of masterbatches additives for plastic films and PEX (silane cross-linked polyethylene) in Asia Pacific. Founded in 1999, our company, as a member of Constab Group from Germany, has been committed to producing and developing high quality materbatches. In 2003, we had another chance to be part of Silon International whose high-tech and know-how supported us to be the leading company of PEX industry in China. In 2008, CONSTAB was acquired by the Kafrit Group. Our PEX and masterbatches and those of the entire Kafrit Group are now traded all over the world. The main applications of materbatches are BOPP, CPP, PE, agricultural and other packaging films, and PEX is mainly applied for temperature resistance piping systems.

Leading analysis of research and development together with devoted technical service enable us to have a better understanding of our clients' demands. We have been committed to integrated solutions for films and pipes manufacturers, which can expand the application fields of your end products. In addition, your fully trust and close cooperation with us will help improve product performance and diversify our products. With the stable, accurate and efficient products, better service in CONSTAB CN is waiting for you.

With the opening of new plant, CONSTAB CN is working together with you for the future of plastics!

Our Purpose

To unite talent and technology
To drive the future of plastics,
Together.

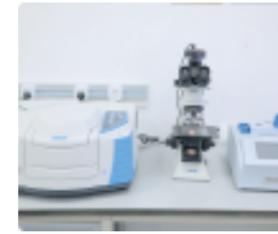
Our Mission

To provide best quality products and most suitable solutions
To provide high-level customer service and technical support
To develop professional staffs with health and safety
To create great future of plastics with sustainability



Overview of Advanced Lab Equipments

FTIR and Melting point apparatus



Nitrogen and Sulfur analyzer



Particle size analyzer



FTIR



Microwave muffle



Cast film



Applicaiton Field



BOPP&CPP



BOPE



PE



PEX



POF

Product Features

- Antiblock
- Slip
- Slip antiblock
- Nucleate
- Antistatic
- Slip antistatic
- Antifog
- Matte compounds
- Processing aids
- Heat Stabilizer
- UV block
- Light stabilizer
- Polymer Modification
- CONSLIP® Products
- PEX

Honor Certificate

ISO 9001 Quality Management System,
ISO 14001 Environmental Management System certifications
ISO 45001 Occupational Health and Safety Management System

1 Antiblocking Masterbatches

CONSTAB® Antilocking Masterbatch products have excellent dispersion, avoiding the formation of fish, eyes, gels, and agglomerations on the film surface.

1.1 Grades with Synthetic Silica

Product	Active Concentration	Description	Proposed Let Down Rate(%)
AB 6019PP	5%	Standard grade; synthetic silica (5 µm); applied for general purpose plain films	1.0 - 4.0
AB 6001PP	10%	Standard grade; synthetic silica (5 µm); applied for general purpose plain films	0.5 - 2.0
AB 6019PPR	5%	Standard grade; synthetic silica (5 µm); applied for Coextruded film	1.0 - 4.0
AB 6018PP*	5%	Synthetic silica (4 µm); Improve the optical properties of the film; applied for general purpose plain films	1.0 - 4.0
AB 6008PP*	10%	Synthetic silica (4 µm); Improve the optical properties of the film; applied for general purpose plain films	0.5 - 2.0
AB 6018PPR*	5%	Synthetic silica (4 µm); Improve the optical properties of the film; applied for Coextruded film	1.0 - 4.0
AB 6008PPR*	10%	Synthetic silica (4 µm); Improve the optical properties of the film; applied for Coextruded film	0.5 - 2.0
AB 6022PPR	5%	Reduce the friction coefficient of the film; provide scratch resistance; recommended for metallizable film and cigarette film	1.0 - 4.0

* Compared with conventional synthetic silica antiblocking masterbatch, it has lower haze and coefficient of friction.

1.2 Grades for Low Haze Plain Films

Product	Active Concentration	Description	Proposed Let Down Rate(%)
AB 6020PP	5%	Special ultrafine spherical synthetic silicates; low haze requirements	1.5 - 5.0
AB 6072PP	2.5%	Ultra-fine synthetic silica with high dispersion; high printing requirements	2.0 - 5.0
AB 6076PPR	5%	Special ultrafine spherical synthetic zeolite; high-cost performance requirements	1.5 - 5.0
AB 6099PP	2%	Proprietary product; applied for high transparent crystal film or tape film	2.0 - 5.0

1.3 Grades for Metallizable Films

Product	Active Concentration	Description	Proposed Let Down Rate(%)
AB 6089PPR	6%	Inorganic round particles; especially for metallizable films	1.0 - 6.0
AB 6097PPR	10%	Inorganic round particles; especially for metallizable films	0.5 - 3.0



1.4 Non-Migrating Slip Grades for Coextruded Films

Product	Active Concentration	Description	Proposed Let Down Rate(%)
AB 6056PPR	5%	Spherical organic antiblocking agent; applied for metallized film and cigarette film	4.0 - 6.0
AB 6060PPR	5%	Spherical organic antiblocking agent; especially recommended for metallized and cigarette films requiring low COF; in compliance with FDA contact approval	4.0 - 6.0
AB 6084PPR	10%	Spherical antiblocking agent; applied for metallized or matting films requiring low COF	3.0 - 5.0
AB 6062PPR	5%	Proprietary organic antiblocking agent; applied for high-speed packaging films with a thin surface layer; such as cigarette film	2.0 - 5.0
AB 6063PPR	5%	Proprietary true spherical antiblocking agent; significantly improve the slip performance of thin film; especially recommended for high-speed packaging film	2.0 - 5.0
AB 6064PPR	5%	Proprietary true spherical antiblocking agent; significantly improve the slip performance of thin film; especially recommended for high-speed packaging film	2.0 - 5.0
AB 6264PPR	5%	Proprietary true spherical antiblocking agent; significantly improve the slip performance of thin film; especially recommended for high-speed packaging film	2.0 - 5.0

All above mentioned grades are particularly recommended for application requiring a very stable wetting tension, good slip properties and enhanced printability. Compared with the traditional migration slip agent, it has no negative effect on the printing, welding, metallization and lamination of the film.

2 Slip Masterbatches

2.1 Standard Grades

Product	Active Concentration	Description	Proposed Let Down Rate(%)
SL 5035PP	6%	High purity erucamide basically for the core layer or films	1.0 - 3.0
SL 5068PP	10%	High purity erucamide basically for the core layer or films	0.5 - 1.5
SL 5004PPR	5%	High purity erucamide basically for the skin layer of coextruded films	1.0 - 4.0

2.2 Super-Slip Grades

CONSTAB® Super-Slip Grades, especially suitable for high-speed packaging films, have excellent thermal slip properties at high temperatures (film to metal).

The surface layer of the film with super slip additives is not recommended for corona or flame treatment, otherwise it will have a negative effect concerning the seal characteristics.

Product	Description	Proposed Let Down Rate(%)
SL 5010PPR	Non-migrating slip agent. for cigarette film or other high-speed packaging film	5.0 - 10.0
SL 5030PPR	Non-migrating slip agent. for cigarette film or other high-speed packaging film	5.0 - 10.0
SL 5077PPR	Non-migratory ultra-high molecular weight slip agent; suitable for cigarette film or other high-speed packaging film	5.0 - 10.0
SL 5091PPR	Suitable for BOPP high-speed lamination packaging; CPP lamination film and metallized film; giving the film low COF and good transparency	5.0 - 10.0

3 Combined Slip / Antiblocking Masterbatches

3.1 Standard Grade

Product	Description	Proposed Let Down Rate(%)
SAB 6527PPR	Standard grade, contains 5% synthetic silica and 5% high purity erucamide; can replace AB6019PPR and SL5004PPR for a more accurate dosage and cost saving	1.0 - 4.0

3.2 Combined Super - Slip Grades

Product	Description	Proposed Let Down Rate(%)
SAB 6532PPR	Standard grade, contains 5% synthetic silica and 5% high purity erucamide; can replace AB6019PPR and SL 5004PPR for a more accurate dosage and cost saving	7.0 - 12.0
SAB 6554PPR	Combined masterbatch based on super-slip agent and antiblocking agent for cigarette films and high-speed packaging; delivers immediate very good slip properties; also suitable for reverse printing	5.0 - 10.0
SAB 6564PPR	Combined masterbatch based on super slip and antiblocking agent for cigarette films and high-speed packaging; delivers immediate very good slip properties; also suitable for reverse printing	5.0 - 10.0

4 Nucleating Masterbatches

CONSTAB® Nucleating Masterbatches can effectively improve the optical properties and stiffness of films.

Product	Description	Proposed Let Down Rate(%)
NC 0602PP	Nucleating agents are used to improve film transparency, surface gloss and stiffness	1.0 - 2.5
NC 0630PP	Nucleating agents are used to improve film transparency, surface gloss and stiffness	1.0 - 2.5
NC 0633PP	Low odor at high temperature; improve the optical properties and stiffness of the film; suitable for retort film	1.0 - 2.5

5 Heat /Processing Stabilizer Masterbatches

CONSTAB® Heat/Processing Stabilizer Masterbatches provide process stability during production and long-term stability of the finished product.

Product	Description	Proposed Let Down Rate(%)
ST 3003PP	Combined primary and secondary antioxidant; for recycling and reprocessing of film scraps and extruder shutdown applications	0.5 - 10.0
AP 3020PP	Special antioxidant compound system; obviously improve the film yellow and red phenomenon	0.5 - 3.0

6 Antistatic Masterbatches

CONSTAB® Antistatic Masterbatches contain only additives of high molecular weight. They therefore have low vapour pressure and generate less smoke at the die and in the TDO of the production line.

6.1 Standard Grades

Product	Description	Proposed Let Down Rate(%)
AT 4021PP	Combined antistatic agent; with fast and long-lasting effect; general purpose film	1.0 - 3.0
AT 4082PP	Combined antistatic agent; with fast and long-term effect; recommended for high temperature extrusion	1.0 - 4.0

AT 4084PP-DC*	Combined antistatic agent; with fast and long-term effect; recommended for high temperature extrusion	0.5 - 2.0
AT 4190PP	Combined antistatic agent; recommended for in-film labels and release films	1.0 - 4.0
AT 4105PP	Combined antistatic agent; gives good optical properties (low blooming) to films such as cigarette films	1.0 - 4.0
AT 4085PP	Combined antistatic agent; fast and long-term effect; suitable for low temperature and low humidity environment film.	1.0 - 2.5

* AT4084PP-DC contains the double additive content of AT4082PP.

6.2 High Concentrated Grades

Product	Description	Proposed Let Down Rate(%)
AT 4155PP	High concentrated grades; combined antistatic agent; fast and long-term effect	1.5 - 3.0
AT 4030PP-HC	High concentrated grades; combined antistatic agent; fast and long-term effect	1.0 - 3.0
AT 4035PP-HC	High concentrated grades; combined antistatic agent; fast and long-term effect	0.5 - 2.0
AT 4040PP-HC	High concentrated grades; combined antistatic agent; fast and long-term effect	0.5 - 1.5

6.3 Special Grades (Slip)

Product	Description	Proposed Let Down Rate(%)
AT 4130PP	Special high-efficiency antistatic agent; low blooming; low odor; significantly improve the film friction coefficient; suitable for high-quality printing or lamination film	2.0 - 5.0
AT 4140PP-DC*	Special high-efficiency antistatic agent; low blooming; low odor; significantly improve the film friction coefficient; suitable for high-quality printing or lamination film	1.0 - 3.0

* AT4140PP-DC contains the double additive content of AT4130PP.

7 Combined Slip / Antistatic Masterbatches

7.1 Grades for warm Climate

Product	Description	Proposed Let Down Rate(%)
SAT 4502PP	Combined antistatic and slip agents; especially recommended for General Purpose Plain Films	1.0 - 5.0
SAT 4506PP	Combined antistatic and slip agents; give the film with better antistatic and slip effect	1.0 - 5.0
SAT 4504PP	Combined antistatic and slip agents; especially for good optical properties after storage of the films at warm climate (less blooming); awards medium slip properties	1.0 - 5.0
SAT 4574PP-DC*	Combined antistatic and slip agents; especially for good optical properties after storage of the films at warm climate (less blooming); awards medium slip properties	0.5 - 2.5
SAT 4550PP	Combined antistatic and slip agents; especially for good optical properties after storage of the films at warm climate (less blooming); recommended for improved slip properties	1.0 - 5.0
SAT 4570PP-DC*	Combined antistatic and slip agents; especially for good optical properties after storage of the films at warm climate (less blooming); recommended for improved slip properties	0.5 - 2.5

- * SAT4575PP-DC contains the double additive content of SAT4504PP.
- * SAT4570PP-DC contains the double additive content of SAT4550PP.

7.2 Grades for cold Climate

Product	Description	Proposed Let Down Rate(%)
SAT 4505PP	Combined antistatic and slip agents; applied for film storage in cold climates	1.0 - 4.0
SAT 4545PP-DC*	Combined antistatic and slip agents; applied for film storage in cold climates	0.5 - 2.5
SAT 4509PP	Combined antistatic and slip agents; especially for improved slip behavior at cold climate	1.0 - 4.0
SAT 4530PP-DC*	Combined antistatic and slip agents; especially for improved slip behavior at cold climate	0.5 - 2.5

- * SAT4545PP-DC contains the double additive content of SAT4505PP.
- * SAT4530PP-DC contains the double additive content of SAT4509PP.

8 Antifogging Masterbatches

CONSTAB® Antifogging Masterbatches prevent the formation of water droplets on the film surface of packed food stuff during their cold or hot storage. The transparency retains for good visibility.

Product	Description	Proposed Let Down Rate(%)
AF 0218PP	For food approvals according to the US-FDA; used to prevent hot fog and cold fog; widely used in packaging fresh fruits and vegetables	2.0 - 3.5
AF 0228PP	For food approvals according to the US-FDA and to the EC Commission Regulation; mainly used for casting polypropylene film against heat fog	3.0 - 5.0
AF 0242PP	For food approvals according to the US-FDA; used to prevent hot fog and cold fog; recommended for the Japanese market	3.0 - 5.0
AF 0235PP	For food approvals according to the US-FDA; applied for cold fog food packaging application	2.5 - 4.0
AF 0262PPR	For food approvals according to the US-FDA; used to prevent hot fog and cold fog; recommended for casting film	8.0 - 12.0

9 Processing Aid Masterbatches

CONSTAB® Processing Aid Masterbatches prevent die build-up of deposits and die lip lines. In addition the extruder output can be increased.

Product	Description	Proposed Let Down Rate(%)
PA 0833PPR	Standard grade; for the surface layer of co-extruded film, such as cigarette film	0.5 - 3.0
PA 0852PPR	Applied for high temperature extrusion process; especially recommended for matte film	0.5 - 3.0



10 Matte Compounds

CONSTAB® Matte Compounds is a mixture of two or more incompatible polyolefin blends in certain proportions. Based on the modified homogeneous alpha-olefin, the roughness of the surface of the film is increased to obtain the matte appearance of the film.

Product	Description	Proposed Let Down Rate(%)
MAT 2466	Standard matte compound; good processing properties	100
MAT 2475	The matte layer has better heat-sealing; reduced shiny spot during film extrusion	100
MAT 2465	Higher haze better processing performance	100
MAT 2479	Special matte compound; giving matte high haze	100
MAT 2413	Special matte compound; delivers a silky and soft touch matte appearance	100
MAT 2418	Excellent processability; low die built up	100
MAT 2420	Special matte compound for in mould label	100
MAT 2495	Low heat-sealing matte compound.	100

11 Polymer Modifier Masterbatches

CONSTAB® Polymer Modifier Masterbatches improve manifold film properties. increases production speed and a wider processing window while energy consumption is reduced.

Product	Description	Proposed Let Down Rate(%)
MA 0930PP	Processing aid; optical properties; metallization	5.0 - 10.0
	Heat shrinkability (cigarette wrap); stiffness; barrier	10.0 - 30.0
	Twist retention; dead fold	30.0 - 50.0
MA 0990PP	Processing aid; optical properties; metallization	5.0 - 10.0
	Heat shrinkability (cigarette wrap); stiffness; barrier	10.0 - 30.0
	Twist retention; dead fold	30.0 - 50.0

The recommended addition amount is based on CONSTAB experience, and the exact addition amount for each use must be determined by actual user testing.

12 CONSLIP® Products

Constab Polyolefin Additives GmbH has introduced a permanent non-migrating slip concept in order to replace common applied additive systems based on migrating agents. CONSLIP® masterbatches are only dosed in the skin layer of the untreated film side. Due to the natural CONSLIP® attitude to transfer after winding, both untreated and treated side, will reach immediately modulatable and very stable slip properties with an accuracy of ± 0.02 COF units.

Despite the transfer to the treated film side the CONSLIP® additive does not affect the compatibility with inks, adhesives and metallization process.

CONSLIP® masterbatches also provide excellent hot-slip properties against metal at elevated temperatures. Therefore they are especially suitable for high-speed packaging processes.

CONSLIP® masterbatches are available without and in combination with antiblocking agents.

Product	Description	Proposed Let Down Rate(%)
CONSLIP® 201 PPR	Non-migratory; ultra-high molecular weight slip agent; suitable for film reverse printing	5.0 - 10.0
CONSLIP® 420 PPR	Provides film thermal slip and antiblocking; low friction coefficient; suitable for film reverse printing; skin layer thickness < 1.0µm	3.0 - 10.0
CONSLIP® 440 PPR	Provides film thermal slip and antiblocking; low friction coefficient; suitable for film reverse printing; skin layer thickness 1.0-2.0µm	3.0 - 10.0
CONSLIP® 480 PPR	High-speed packaging film; providing film thermal slip and antiblocking; low friction coefficient; suitable for film reverse printing; skin layer thickness > 2.0µm	3.0 - 10.0

“We like working with CONSTAB because they are reliable with high competence and very good technical support.”

Please request for further information:

 **BOPP**
Optimizing BOPP film production with CONSTAB® Masterbatches and Compounds

 **BOPE**
Sustainable solutions for flexible packaging films with CONSTAB® CON-X® Masterbatches

 **Functionalities: Ecocell® – Lighten up!**
A revolutionary foaming agent to reduce material and resin consumption

 **Functionalities: Kafrit Group Antioxidants**
Reliable protection for your plastic products

 **Functionalities: Conpeel**
Strong protection, easy peeling with CONSTAB CONPEEL® Compounds

 **Polyethylene Packaging, Polypropylene Cast and Calender Films**
 Rolling to success with Kafrit Group Masterbatches and Compounds

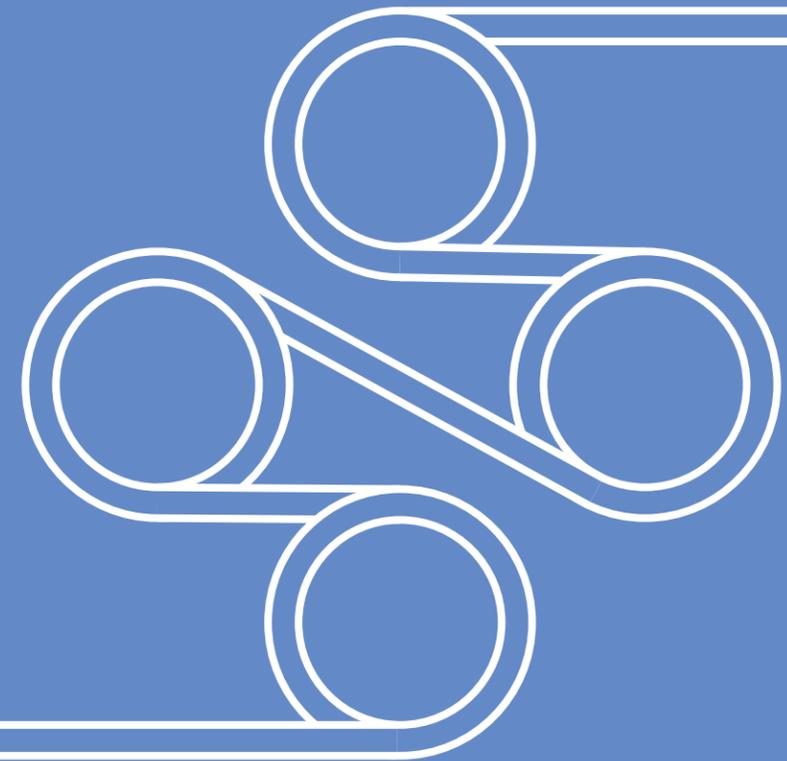
 **Polycarbonate and PMMA Sheets**
for a transparent view with Kafrit Masterbatches and Compounds

 **Pipes and Sheets**
Customized solutions with Kafrit Group Masterbatches and Compounds

 **Injection Molding, Blow Molding**
Injecting new ideas into your products with Kafrit Group Masterbatches and Compounds

 **Nonwovens**
Adding value to Fibers and Nonwovens with Kafrit Group Masterbatches

 **Agricultural Film**
Growing success with Kafrit Group Masterbatches and Compounds



Global supply, local partnership:
We are where you are.



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