



**Rolling to success with Kafrit Group
Masterbatches and Compounds**

POF

 **CONSTAB CN**

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, Polyfil 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.

-  KAFRIT IL ①
-  CONSTAB GER ②
-  CONSTAB CN ③
-  KAFRIT NA ④
-  POLYFIL USA ⑤
-  ADDVANZE SWE ⑥
-  DELTA KUNSTSTOFFE GER ⑦
-  ABSA RESINS CAN ⑧



● 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



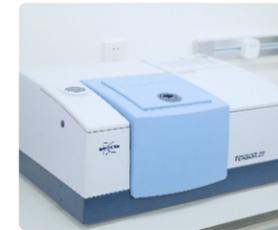
Nitrogen and Sulfur analyzer



Particle size analyzer



FTIR



Microwave muffle



Cast film



Applicaiton Field



BOPP&CPP



BOPE



PE



PEX



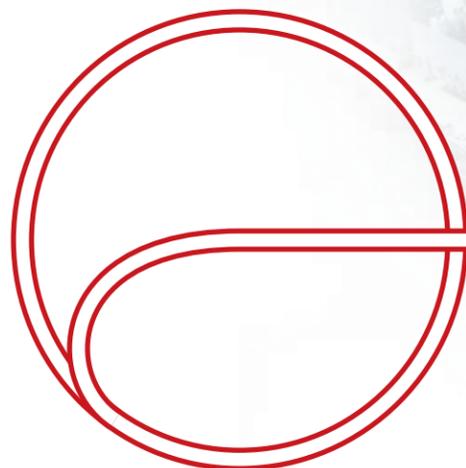
POF

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

1.1 Grades with Synthetic Silica

Product	Description	Proposed Let Down Rate(%)
AB 6018PP SE	5% synthetic silica, excellent antiblocking effect and optical properties, high transparency applications	3.0 - 4.0
AB 6008LD	10% synthetic silica, excellent antiblocking effect and optical properties, high transparency applications	1.0 - 2.5
AB 6008PPR	10% synthetic silica, excellent antiblocking effect and optical properties, high transparency applications	1.0 - 2.5

Compared to natural silica, these products have good antiblocking and optical properties (haze, gloss).

1.2 Grades with Natural silica

Product	Description	Proposed Let Down Rate(%)
AB 6038LD	20% natural silica	0.75 - 1.5

The product has a high-cost performance in terms of antiblocking effect, and the haze and gloss remain within an acceptable range for general use.

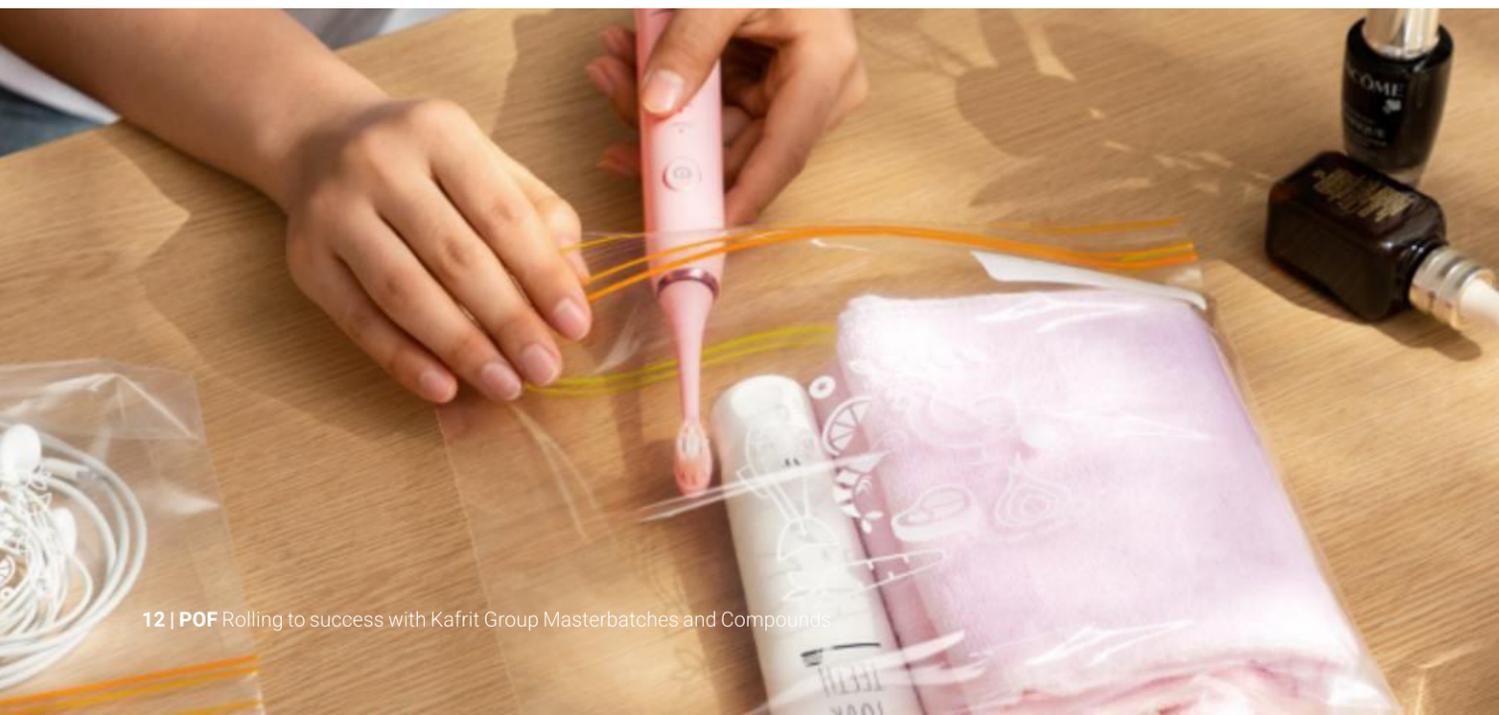
1.3 Non-Migrating Slip Grades for Coextruded Films

Product	Description	Proposed Let Down Rate(%)
AB 6084LD	7.5% organic antiblocking, additional slip effect, large particle size range	3.0 - 5.0
AB 6084PPR	7.5% organic antiblocking, additional slip effect, large particle size range	3.0 - 5.0
AB 6090LD	7.5% organic antiblocking, additional slip effect, small particle size range, high transparent antiblocking agent, good slip performance	3.0 - 5.0
AB 6090PPR	7.5% organic antiblocking, additional slip effect, small particle size range, high transparent antiblocking agent, good slip performance	3.0 - 5.0
AB 6264PPR	5% organic antiblocking, additional slip effect, small particle size range, high transparent antiblocking agent, excellent heat slip performance	4.0 - 6.0
AB 6264LD	5% organic antiblocking, additional slip effect, small particle size range, high transparent antiblocking agent, excellent hot-slip performance	4.0 - 6.0

All of the above grades are ideal for films where very stable wetting tension and very good coefficient of friction are required, such as low coefficient of friction metallized films. Most of these applications can be applied without the need for additional slip agent. The masterbatch enhances the printability of the film due to the soft organic antiblocking agent.

1.4 Grades with Low fog

Product	Description	Proposed Let Down Rate(%)
AB 6088LD	5% spherical antiblocking	2.0 - 5.0
AB 6010LD	10% special synthetic zeolite	2.0 - 5.0
AB 6010PPR	10% special synthetic zeolite	2.0 - 5.0



2 Slip Masterbatches

2.1 Standard Grades

Product	Description	Proposed Let Down Rate(%)
SL 5068LD	10% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300°C	0.5 - 1.5
SL 5068PP	10% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300°C	0.5 - 1.5
SL 5004LD	5% high purity erucamide, containing high temperature stable active ingredients, suitable for high temperature processing up to 300 °C	1.0 - 3.0
SL 5004PPR	5% high purity erucamide, containing high temperature stable active ingredients, suitable for high temperature processing up to 300°C	1.0 - 3.0
SL 5060LD	7.5% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300°C	1.0 - 3.0
SL 5060PP	7.5% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300°C	1.0 - 3.0
SL 5035LD	6% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300°C	1.0 - 4.0
SL 5035PP	6% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300°C	1.0 - 4.0
SL 5008LD SO	7.5% high purity erucamide, fast migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 260°C	2.0 - 4.0
SL 5067LD SO	10% high purity erucamide, fast migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 260°C	2.0 - 3.0

More than the high quality of raw materials for all products are strictly controlled, sustained, good film performance can be obtained, also can avoid the other negative effect. Such as discoloration, odor, etc.

2.2 Super-Slip Grades

Product	Description	Proposed Let Down Rate(%)
SL 5000LD	Non-migrating slip	5.0 - 10.0
SL 5000PPR	Non-migrating slip	5.0 - 10.0
SL 5010LD	Non-migrating slip	5.0 - 10.0
SL 5010PPR	Non-migrating slip	5.0 - 10.0
SL 5080PPR	Non-migrating slip	5.0 - 10.0
SL 5077LD	Non-migrating slip aid based on a high molecular weight	5.0 - 10.0
SL 5077PPR	Non-migrating slip aid based on a high molecular weight	5.0 - 10.0

All grades of masterbatch are added only to the skin layers of the coextruded film. They are very suitable for high-speed packaging production at high temperature where the film is required to have good hot-slip performance. The series masterbatch can also improve the release performance of the film. To achieve the desired effect, antiblocking masterbatch should also be used.



3 Combined Slip / Antiblocking Masterbatches

3.1 Standard Grades

Product	Description	Proposed Let Down Rate(%)
SAB 6509LD	5% synthetic silica and 5% high purity erucamide	2.0 - 5.0
SAB 6527PPR	5% synthetic silica and 5% high purity erucamide	2.0 - 5.0

3.2 Combined Super- Slip Grades

Product	Description	Proposed Let Down Rate(%)
SAB 6532PPR	Combination of super-slip and standard antiblocking agent for cigarette films or similar applications	7.0 - 12.0
SAB 6554PPR	Combination of super-slip and organic antiblocking agent for cigarette films or similar applications	7.0 - 12.0

4 Antistatic Masterbatches

4.1 Standard Grades

Product	Description	Proposed Let Down Rate(%)
AT 4060LD	Low migrating and long-term antistatic agent	1.0 - 4.0
AT 4055LD	Fast migrating and long-term amine-free antistatic agent, low humidity high transparency applications, packaging of electronic components	1.0 - 5.0
AT 4131LD	Amine-free and long-term antistatic masterbatch, especially for packaging of electronic components	1.5 - 4.0

5 Antifogging Masterbatches

5.1 Standard Grades

Product	Description	Proposed Let Down Rate(%)
AF 0290LD	For food approvals according to the EC and FDA, recommended for cold antifog applications	6.0 - 10.0
AF 0262PPR	For food approvals according to the EC and FDA, recommended for cold and hot antifog applications	8.0 - 13.0
AF 0252LD	For food approvals according to the EC and FDA, recommended for cold and hot antifog applications	6.0 - 12.0

6 Processing Aid Masterbatches

6.1 Standard Grades

Product	Description	Proposed Let Down Rate(%)
PA 0833PP	Especially recommended for skin layers of coextruded films above 250°C processing temperature	0.5 - 2.5
PA 0833LD	Especially recommended for skin layers of coextruded films above 250°C processing temperature	0.5 - 2.5
PA 0856LD	Especially recommended for skin layers of coextruded films below 250°C processing temperature	0.5 - 2.5

PA 856LD is commonly used in LLDPE films to eliminate melt fracture.
PA 833PP/LD can improve the output and reduce die build-up.

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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