



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

BOPE



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



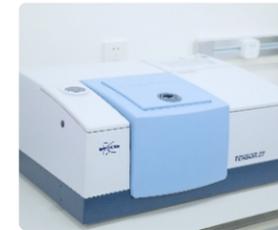
Nitrogen and Sulfur analyzer



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 618LD	5% synthetic silica, excellent antiblocking effect and optical properties, high transparency applications	3.0-5.0
AB 619LD	5% synthetic silica, excellent antiblocking effect and optical properties, high transparency applications	3.0-5.0
AB 608LD	10% synthetic silica, excellent antiblocking effect and optical properties, high transparency applications	1.0-2.5
AB 601LD	10% synthetic silica, excellent antiblocking effect and optical properties, high transparency applications	1.0-2.5
AB 613LD	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 628LD	10% natural silica	1.5-4.0

AB 628LD has the cost-effective and the haze and gloss meet the needs of general film application.

1.3 Grades with Synthetic spherical inorganic additive

Product	Description	Proposed Let Down Rate(%)
AB 610LD	10% synthetic zeolite, spherical small particle size	1.0-5.0
AB 617LD	10% synthetic zeolite, spherical small particle size	1.0-4.0
AB 615LD	10% synthetic silica, high efficiency antiblocking	1.0-3.0

1.4 Non-Migrating Slip Grades for Coextruded Films

Product	Description	Proposed Let Down Rate(%)
AB 684LD	7.5% organic antiblocking, additional slip effect, larger particle size	3.0-6.0
AB 690LD	7.5% organic antiblocking, additional slip effect, small particle size, high transparent antiblocking performance, good slip performance	4.0-8.0
AB 665LD	10% organic antiblocking, additional slip effect, small particlesize, high transparent antiblocking performance, excellent heat slip performance	3.0-5.0

All of the above grades are ideal for applications 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.



2 Slip Masterbatches

2.1 Standard Grades

Product	Description	Proposed Let Down Rate(%)
SL 568LD	10% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300°C, added to the film core layer	0.5 - 3.0
SL 504LD	5% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300 °C,	1.0 - 6.0
SL 560LD	7.5% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300 °C, added to the film core layer	1.0 - 4.0
SL 535LD	6% high purity erucamide, slow migrating, containing high temperature stable active ingredients, suitable for high temperature processing up to 300 °C, added to the film core layer	1.0 - 5.0

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 500LD	Non-migrating slip	5.0 - 10.0
SL 510LD	Non-migrating high molecular weight slip	5.0 - 10.0
SL 508LD	Non-migrating extra-high molecular weight slip	5.0 - 10.0
SL 577LD	Non-migrating extra-high molecular weight slip	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 Grade

Product	Description	Proposed Let Down Rate(%)
SAB 659LD	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 652LD	Combination of super-slip and standard antiblocking agent for cigarette films or similar applications	4.0 - 6.0
SAB 654LD	Combination of super-slip and standard antiblocking agent for cigarette films or similar applications	4.0 - 6.0
SAB 664LD	Combination of super-slip and standard antiblocking agent for cigarette films or similar applications	4.0 - 6.0



4 Antiblocking Masterbatches

4.1 Grades with Synthetic Silica

Product	Description	Proposed Let Down Rate(%)
AT 401LD	Fast migrating and long-term performance antistatic masterbatch	2.0 - 4.0
AT 461LD	Medium migrating antistatic masterbatch	1.0 - 5.0
AT 431LD	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 290LD	For food approvals according to the EC and FDA, mainly recommended for cold antifog applications	6.0 - 10.0
AF 252LD	For food approvals according to the EC and FDA, recommended for hot and cold antifog applications	6.0 - 12.0

6 Processing Aid Masterbatches

6.1 Standard Grades

Product	Description	Proposed Let Down Rate(%)
PA 833LD	Especially recommended for skin layers of coextruded films above 250°C processing temperature	1.0 - 5.0
PA 856LD	Especially recommended for skin layers of coextruded films below 250°C processing temperature	0.5 - 4.0
PA 892LD	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 833LD can improve the output and reduce die build-up.

7 Heat /Process Stabilizer Masterbatches

Product	Description	Proposed Let Down Rate(%)
ST 317LD	Combined primary and secondary antioxidant, reduce the formation of gels and eliminate burned spots	1.0 - 3.0

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

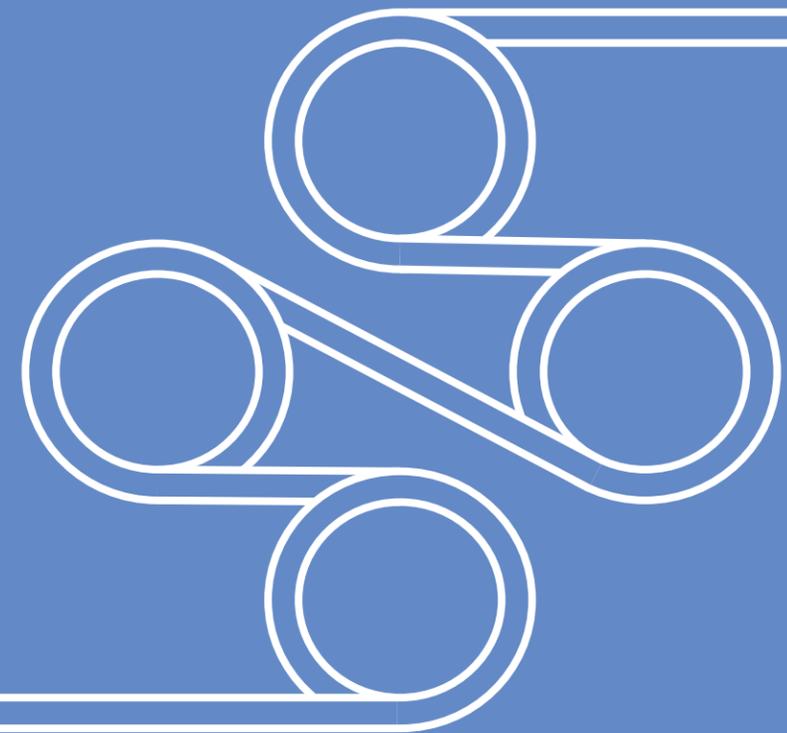
 **Polycarbonate and PMMA Sheets**
for a transparent view with Kafrit Masterbatches
and Compounds

 **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.



CONSTAB CN

Suzhou Constab Engineering Plastics Co., LTD

999 Pangjin Road, Wujiang District, Suzhou City,
Jiangsu Province
Tel: +86 512 6333 1654 | Fax: +86 512 6333 6987
info@constab.cn | www.constab.cn



KAFRIT IL

Kafrit Industries (1993) Ltd.

Kibbutz Kfar-Aza, M.P. Negev, 8514200, Israel
Tel: +972 8 6809845 | Fax: +972 8 6809846
kafrit@kafrit.co.il | www.kafrit.com



CONSTAB GER

CONSTAB Polyolefin Additives GmbH

Industriestrasse Möhnetal 16, 59602 Rütten, Germany
Tel: +49 2952 8190 | Fax: +49 2952 3140
info@constab.com | www.constab.com



KAFRIT NA

Kafrit NA Ltd.

5411-275th Street, Langley,
British Columbia, Canada, V4W 3X8
Tel: +604 607 6730 | Fax: +604 607 6736
management@kafrit.ca | www.kafrit.ca



POLYFIL USA

Polyfil Incorporated

74 Green Pond Road, P.O. Box 130,
Rockaway, NJ 07866, USA
Tel: 973-627-4070 | Fax: 973-627-7344
info@polyfilcorp.com | www.polyfilinic.com



ADDVANZE SWE

Addvanze AB

Makadamgatan 19, 254 64 Helsingborg, Sweden
Tel: +46 42 445 33 00 | Organisationsnr: 556812-7558
info@addvanze.com | www.addvanze.com



DELTA KUNSTSTOFFE GER

Delta Kunststoffe AG

Industriestraße 44, 47652 Weeze, Germany
Tel: +49 2837 10510 | Fax: +49 2837 1051810
info@delta-kunststoffe.de | www.delta-kunststoffe.de



ABSA RESINS

Absa Resins

310 Montrose Street North Cambridge Ontario Canada N3H 2H8
Tel: 519-653-5575 | Fax: 519-653-1255
absacustomerservice@absaresins.com | www.absaresins.com



BADGER COLOR CONCENTRATES

Badger Color Concentrates

1007 Fox St Mukwonago WI 53149
Tel: 262-363-5710
orders@badgercolor.com | www.badgercolor.com



Legal Statement: The information and recommendations contained in this brochure are based upon data collected by Kafrit Group and believed to be correct. However, no warranty of fitness for use or any other guarantee of any kind, expressed or implied, is made with respect to the information and recommendations contained herein, and Kafrit Group assumes no responsibility for results of the use of products, processes, information and recommendations described herein. Specific recommendations and applications for specific products should be considered and pre-checked by the user to ensure compatibility with user's equipment and product requirements. © **CONSTAB 03.2024**