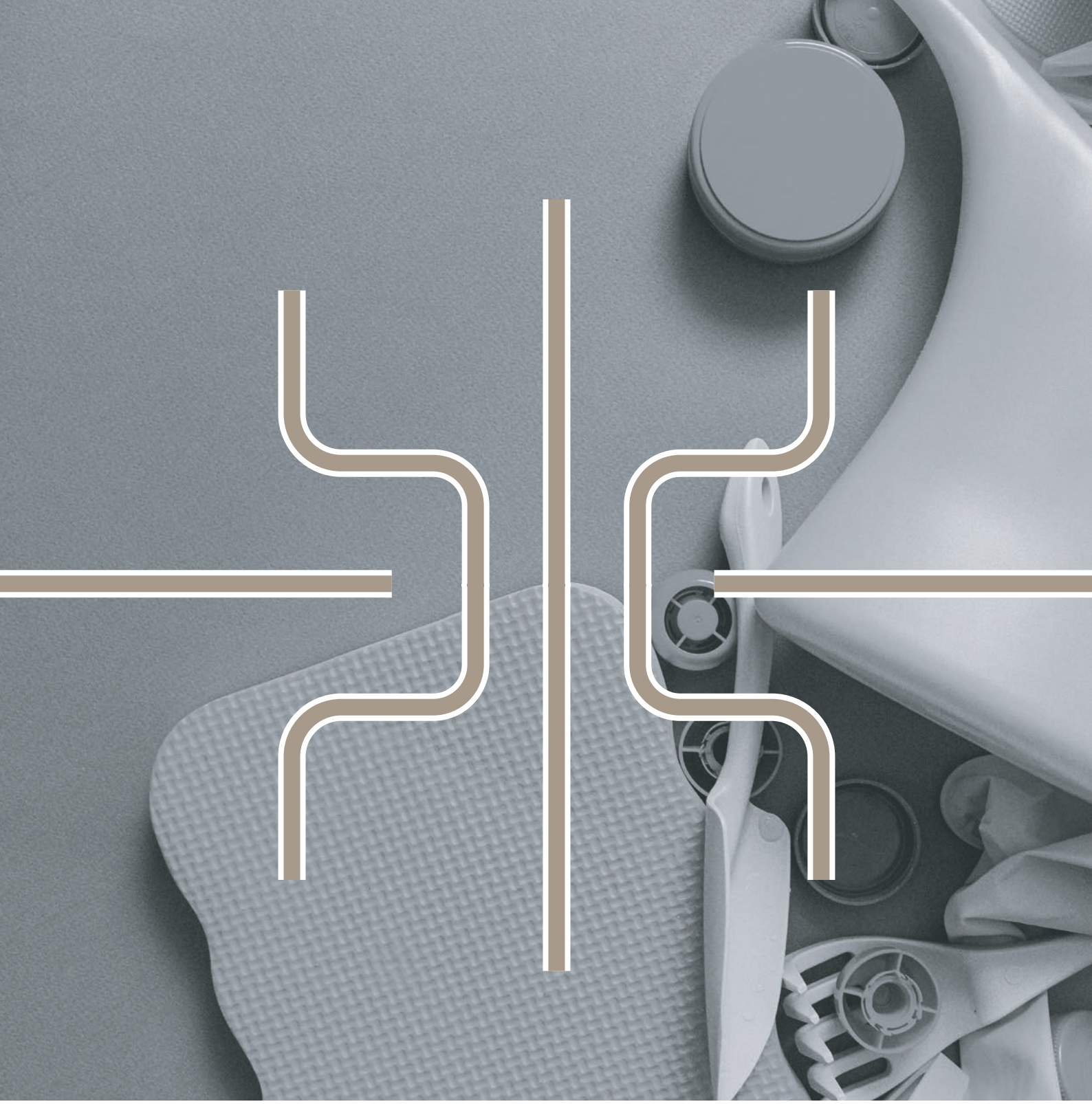


Injecting new ideas into your products with Kafrit Group Masterbatches and Compounds

Injection molding
Blow molding

Kafrit Group

Working together for the future of plastics.

Kafrit Group

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

Kafrit Group production sites Agencies/Distribution

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?

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.

Individually tailored at your demands.

High-performance Masterbatches to match even ambitious requirements.

Injection molding is a specialized process that can be performed with a host of different polymers. It is a process where plastic is fed through a heated barrel and then forced into a hollow mold. Inside the mold, the plastic cools down and hardens to the form of the cavity.

Plastics that are subjected to injection molding must be meticulously designed to facilitate the molding process.

In this context, Kafrit Group Masterbatches are very useful since they serve as additives for obtaining optimal production qualities such as color consistency.

More specifically, we offer high-performance Masterbatches that are specifically designed for injection molding processes. The products we provide will ensure the desired quality characteristics and are tailored to your own individual demands.

The blow molding manufacturing process subjects plastic particles to a lot of strain. During the process, the plastic is melted down and then goes through complex forming and cooling procedures until it is eventually ejected as a finished part.

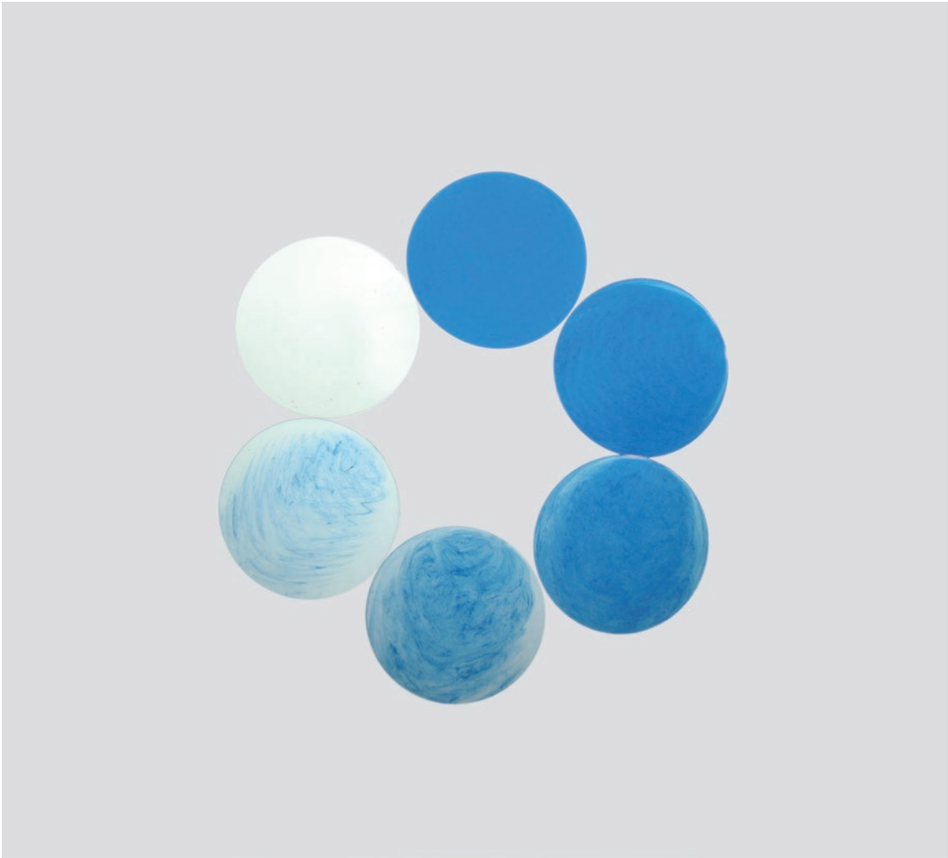
In order to obtain a final product with the desired characteristics, you will require the fine-tuning capabilities of Masterbatches.

Depending on your individual requirements, we offer suitable and innovative Masterbatches of the highest quality for all types of blow molding processes including injection molding or extrusion blow molding. Our nucleating agents and cleaning compounds offer additional advantages for quality improvements and will ensure an optimal production process.

1. Purge

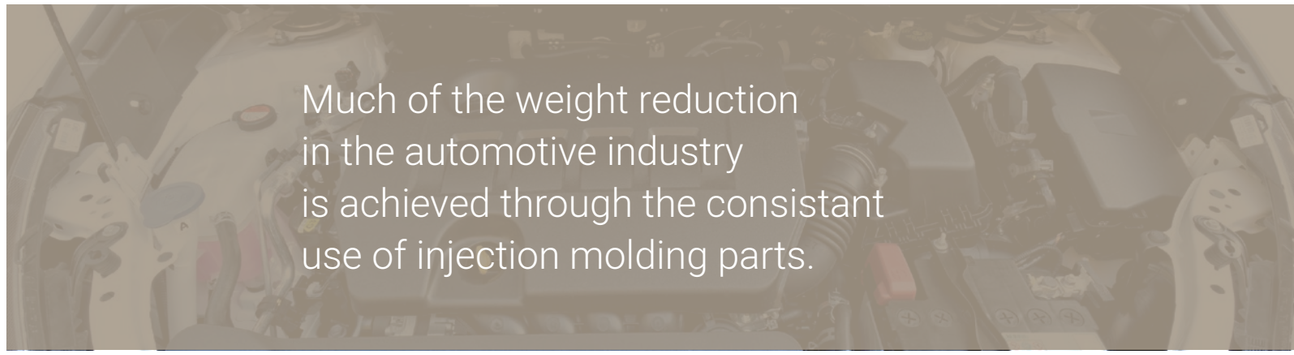
Code	Description	Dosing %
PR 00701 LD	Purge compound, suitable for polyolefins.	50.0 – 100.0
PR 04040 LD	Shut down, prevents oxidation to reduce black spot for a faster start up.	10.0 – 100.0

Faster color change thanks to CONSTAB purge compounds.



2. Recycle

Code	Description	Dosing %
ST 03003 PP	PP based process stabilizator, especially during machine shut down / start up procedures. Preferred with regrind in use.	1.0 – 1.5
ST 04400 LL	Reduces formation of gels and burned spots. Recommended to use in recycled polymers.	1.0 - 2.0
DS 0C64B LD	Desiccant. Eliminates moisture during processing.	0.5 – 3.0
GAC-10003	Gas and odor absorbing for polyolefins.	2.0 – 8.0
ONC-1000 PBLL-1	Odor neutralizer. Engineered to neutralize hydrogen sulfides (H_2S) and amine based molecules.	2.0 – 8.0



Much of the weight reduction in the automotive industry is achieved through the consistant use of injection molding parts.

3. Polymer Modification

Code	Description	Dosing %
CON-Batch 30X	For molded articles such as bottles, cups. Allows downgauging of up to 30% of total thickness while retaining its mechanical integrity; improves mechanical, opticals and barrier properties; improves carbon footprint.	4.0 – 20.0

4. Stabilizer

Code	Description	Dosing %
ST 03023 PP	Especially for automotive parts, effective in combination with ST 03003 PP/LD.	1.0 – 3.0
ST 03003 LD	For processing and long-term heat stabilization, in particular articles with contact to water, machine shut-down, rework.	1.0 – 1.5

5. Nucleator/Clarifier

Code	Description	Dosing %
NC 00611 LL	Basic, strong nucleating agent, improves stiffness, filled polymers.	1.5 – 4.0
NC 00607 PP	Clarifier with extremely low migration.	3.0 – 3.5
NC 02160 PP	Faster PP crystallization for shorter cycle time, sink mark elimination.	1.0 – 3.0

NC 00607 PP diminishes the effect that pigments have on the shrinkage of injection molded articles. Left side without NC 00607 PP and right side with NC 00607 PP.

6. Mold Release

Code	Description	Dosing %
SL 05004 LD	Mold release/flow improver.	0.5 – 2.0
SL 05035 PP	Mold release/ flow improver.	0.5 – 2.0
SL 0C600 LD	Slip agent, combination for medium and long term effect.	1.0 – 3.0
SL 03730 LD	Slip agent, high concentrated for medium effect.	1.0 – 3.0
SAB 06573 LD RELEASE AND ANTISTICK	Mold release	0.5 – 2.0

7. Antistatic

Code	Description	Dosing %
AT 04139 PP	Amine-free for short- and long-term antistatic effect. Mold release agent.	1.0 – 6.0
AT 0B790 LL	Synergistic blend of fast and slow migrating products.	1.0 – 4.0

Do you have floating or sticking cups in your machine? CONSTAB Antistatic Masterbatches prevent this from happening.

8. Color and Special Effects

Dream your color! Add bright, vibrant colors to your product with our custom color matching from ADDVANZE®. We feature a variety of polymers and our building blocks are high quality raw materials. We use state-of-the-art production and laboratory equipment to achieve superior quality and enhance color properties.

Color matching by our company ADDVANZE®: Within a few days of your inquiry, we are able to provide you with a tailor-made product that meets your requirements. We also keep an eye on the latest EU and US regulations, especially those for food packaging, giving you peace of mind for your production.

Code	Description	Dosing %
CB 80987A	Wood effect for PP crates, combined with UV.	5.0
CB 80C98 LL BEIGE and MAGNET and UV	Magnet colors, combined with UV.	5.0
CB 90750 LL MIST GREY and UV and MAGNET	Magnet colors, combined with UV.	5.0
CB 60H06 LL BLUE and MAGNET and UV	Magnet colors, combined with UV.	5.0
CB 80C47 LL BROWN and MAGNET and UV	Magnet colors, combined with UV.	5.0
CC 90778 PP BLACK	NIR reflective Black, enable sorting during recycling procces	1.0 – 6.0
CC 12720 LD WHITE	White color for Pharmaceutical/Medical applications	2.0 – 10.0

9. UV

Code	Description	Dosing %
UV 01370 PP	Improved color retention.	1.0 – 5.0
UV 01255 LD	Basic UV-stabilizer.	1.0 – 5.0
UV 06250 LL	General purpose UV stabilizer.	2.0 – 6.0
UV 00990 LD	Highly efficient UV stabilizer.	2.0 – 6.0
UV 00V34 LL	Synergistic HALS combination for injection molded articles, food approved.	2.0 – 5.0
UV 01880 LL	High concentrated, for transparent and white injection molded PP articles.	1.0 – 7.0

10. Processing Aid

Code	Description	Dosing %
PA 00833 LD	Processing aid, prevents die buildup and gives a smoother, more glossy surface.	1.0
PA 00852 PP	Processing aid, prevents die buildup and gives a smoother, more glossy surface.	1.0
PA 0K060 PP	Processing aid, high temperature.	0.5 – 1.0

11. Barrier

Code	Description	Dosing %
BR 02017 PP	Increases barrier against oxygen and water vapour, lowers melt pressure.	10.0 – 25.0

12. Flame Retardant

Code	Description	Dosing %
FR 07180 LD	Halogenated Flame Retardant.	4.0 – 25.0
HFFR 00228 PP	Halogen free Flame Retardant.	2.0 – 15.0
FR 04530 PC	Halogen free Flame Retardant.	3.0 – 4.5

13. Foaming

Code	Description	Dosing %
FM 00D41 LD	High concentrated endothermic foaming agent, eliminates sink marks, voids, density reduction.	1.0 – 5.0
FM 09570 LD	Endothermic foaming agent, eliminates sink marks, voids, density reduction.	1.0 – 5.0
Ecocell® L	Micro cellular patented endothermic solution.	1.0 – 2.5
Ecocell® P	General purpose for PE, PP, PS.	1.0 – 2.5
Ecocell® H1	High active for PE, PP, PS.	1.0 – 2.5
Ecocell® GTL-3	For PET, ABS, PC/ABS, PLA.	1.0 – 2.5

14. Specialties

Code	Description	Dosing %
MAP 00737 LL	Prevents fungi growth on polymer surface	4.0 – 6.0

Kafrit Group

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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