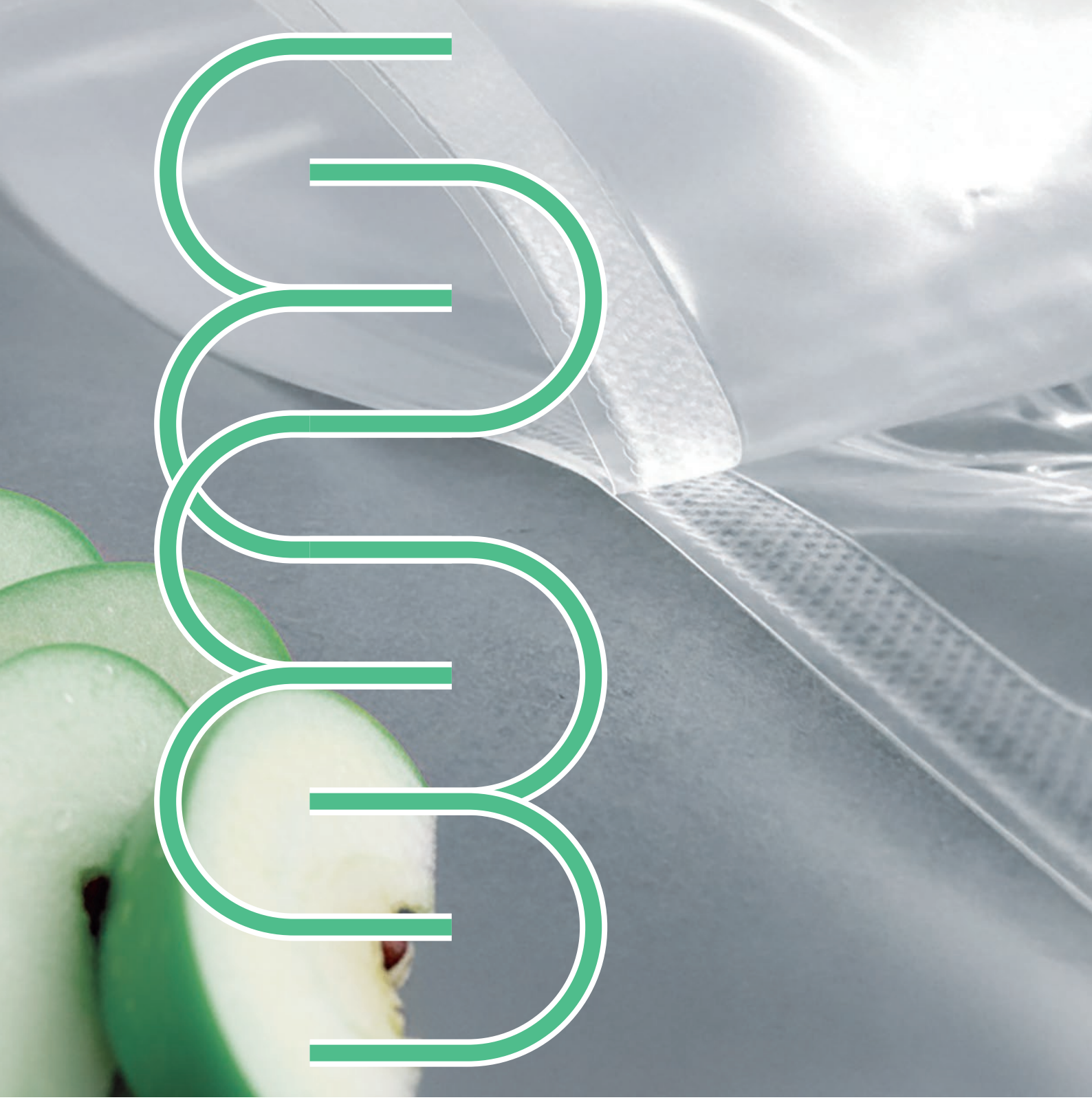


New approach to reclosable packaging

Extrudable reclosable adhesive

CONSTAB GER

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 1,000 people. In 2025, we achieved approx. 400 million USD turnover with an available capacity of more than 175,000 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 is a global network of leading plastics additive, color masterbatch and compound manufacturers, operating production and development sites in Israel, Germany, China, the USA, Canada, Sweden and India.

Its companies include **Kafrit Industries (1993) Ltd. in Israel, CONSTAB Polyolefin Additives GmbH, Delta Kunststoffe AG and Finke Colors GmbH in Germany, China's Suzhou Constab Engineering Plastics Co. Ltd., Polyfil Inc. and Badger Color Concentrates Inc. in the USA, the Canada-based Kafrit NA Ltd. and ABSA Resin Technologies Inc., Addvanze AB in Sweden, CONSTAB Polyolefin Additives India Pvt. Ltd. and 51 % of Plastics App Ltd.in Israel.**

With more than 50 years of experience in the plastics processing industry, we can draw on high levels of expertise and technical know-how. Kafrit Group follows a publicly available sustainability agenda and has made it to one of the cornerstones of our corporate strategy.

Our unbridled dedication to quality and technology makes us to one of the leading business partners in the plastics industry. Our customers value our passion and appreciate our 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
- KAFRIT NA 2
- POLYFIL USA 3
- CONSTAB GER 4
- CONSTAB CN 5
- ADDVANZE SWE 6
- DELTA KUNSTSTOFFE GER 7
- ABSA RESINS CAN 8
- BADGER COLOR USA 9
- CONSTAB IND 10
- Finke 11
- PLASTICS-APP 12

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 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 has always been a key area of our expertise. Kafrit Group employs a staff of more than 1,000 people who work on innovative products and make use of our vast pool of knowledge developed over 50 years in the plastics industry. Our experts optimize and develop additive concentrates, flame retardants, color concentrates, and compounds for various applications.

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

Your benefits at a glance

EXCELLENT PERFORMANCE:

Shows excellent reclosability over tens of opening cycles.

HIGHLY EFFICIENT:

The reclosability is integrated directly into the packaging film, avoiding the need for additional processes.

UNIQUE TECHNOLOGY:

Creating a cohesive failure within the adhesive layer after 1st opening.

FULLY RECYCLABLE:

Polyolefin based Grades, available for All PE & All PP packaging.

HIGHLY COMPATIBLE:

Fits existing blown and cast extrusion lines, making it easy for manufacturers to adopt. Low melt flow allows working at wide range of temperature profile.

ADDITIONAL FEATURES:

Odorless and Transparent material

Sometimes failure is the key to the solution. In this case, to reclosing.

Our adhesive technology compared to conventional solutions.

New!
Also for
PE and PP
mono material
packaging

The improved reclosability is due to the use of the extruded adhesive. Unlike conventional systems, this breaks evenly at the first opening, so that it is on both the lid of the package and the tray itself. As a result, during each subsequent opening cycle and subsequent reclosure, adhesive layer adheres to adhesive layer, light pressure is enough to make it stable. In conventional systems, the layer for reclosing meets the packaging material directly, which limits the holding forces.

Ready to use:
no process change needed

Fitting to standards, of course regulatory compliances

Complies with EU Regulation (EC) No. 1935/2004 article 3(1) & (EU) No. 10/2011

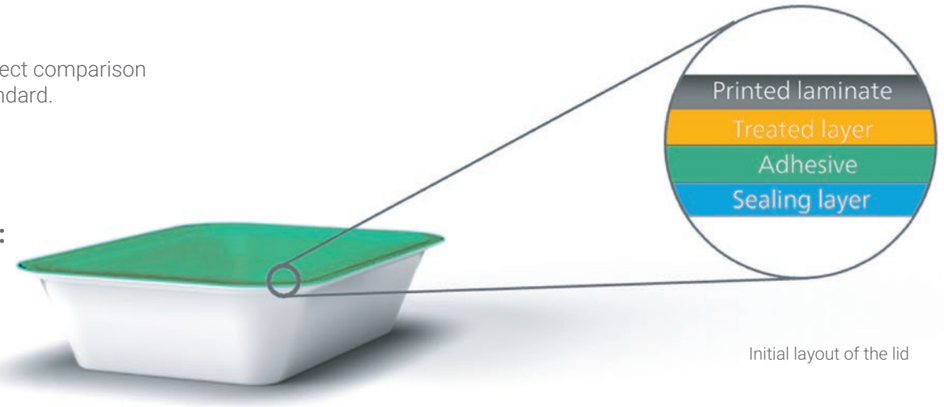
Complies with FDA Regulation 21 CFR & 175.105, 21 CFR& 177.1520

This product is manufactured using non-animal-derived raw materials.

What makes the difference

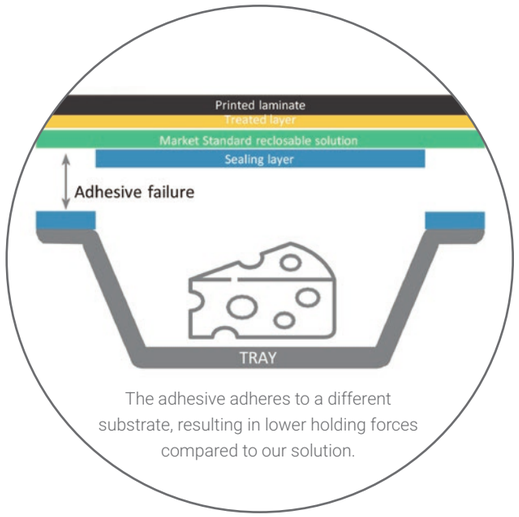
Our solution in direct comparison
to the market standard.

PRE OPENING:



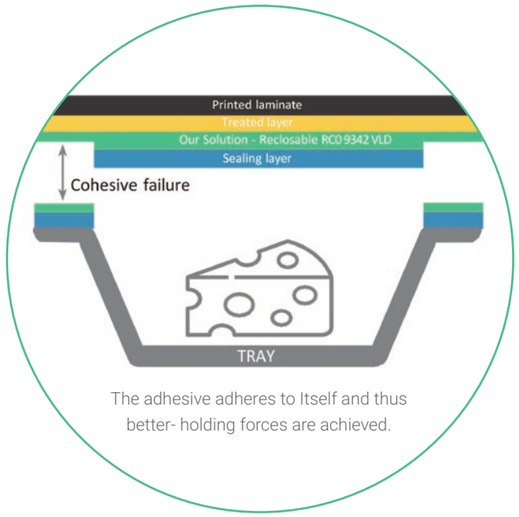
Initial layout of the lid

AFTER OPENING
MARKET STANDARD:



The adhesive adheres to a different substrate, resulting in lower holding forces compared to our solution.

AFTER OPENING
OUR SOLUTION:



The adhesive adheres to Itself and thus better- holding forces are achieved.

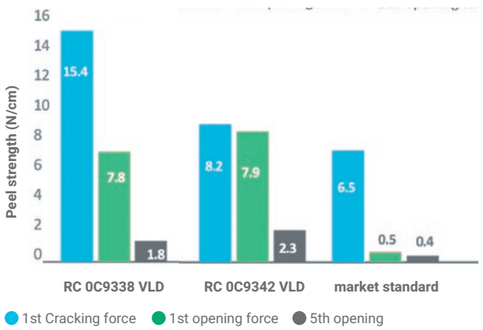
Technical details

Available Types

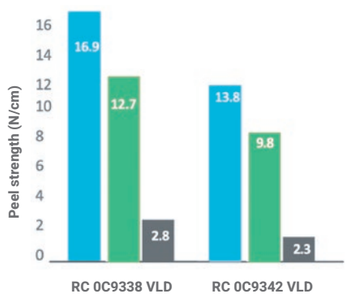
Properties	RC 0C9338 VLD	RC 0C9342 VLD
Compatibility	PE Trays, PP Trays, PETPE Trays	PE Trays, PP Trays, PETPE Trays, APET Trays
Aspect	Granulates	Granulates
Color	Transparent	Transparent
Odor	Odorless	Odorless
Melt flow index (190°C/2.16kg)	6.5	5.5

TEST CRACKING-/OPENING FORCE

Testing method:
RC Film - 3-layer structure 20 µ/10 µ/20 µ
Sealed to: LDPE/RC film/LDPE
Measured via T- peel test at 300 mm/min.



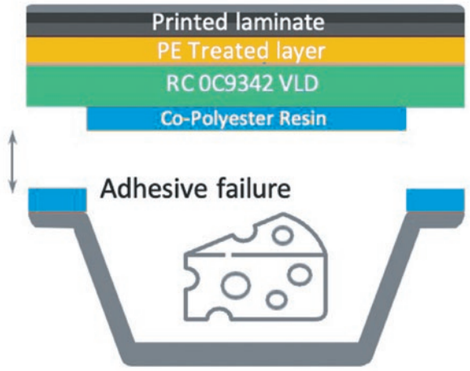
RC Film - 3-layer structure 20 µ/10 µ/20 µ
Sealed to: Random PP /RC film/ Random PP Measured via T- peel test at 300 mm/min.



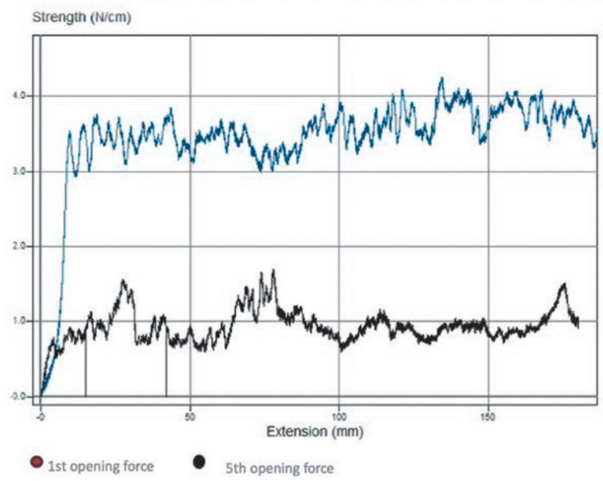
New! Solution for APET Trays

COMPATIBLE WITH CO-POLYESTER RESINS

- Compatible with PE, PP and Copolyester Resins
- PET Tray recycling- no residuals on the tray
- Cost Efficient- save the use for Tie layer



RECLOSABLE PE FILM SEALED TO APET



Testing method:
RC Film - 3-layer structure 30 µ/RC 0C9342 VLD]10 µ[/ [10 µ[
Sealed to: LDPE/RC film/APET
Measured via T- peel test at 300 mm/min.

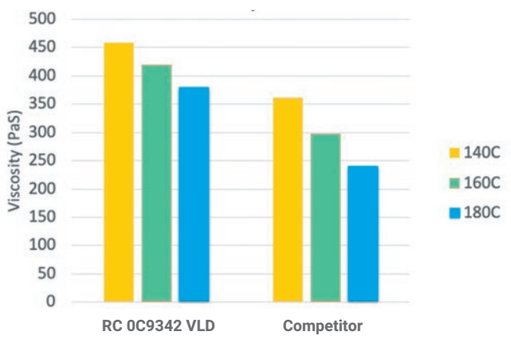
Technical details

DESCRIPTION

- Extrudable adhesive for Cast & Blown Extrusion
- Polyolefin based- fully recyclable material
- Cohesive Failure mode from the 1st opening
- Low-Odor, free-flowing pellets

Properties	Values	Unit	Method
Aspect	Granulates		
Melt flow index	5 –7	g/10min	A.S.T.M 1238 (190°C/2.16kg)
Viscosity	380	PaS	Shear rate [40S-1], 180°C

Effect of temperature on viscosity of RC 0C9342 VLD vs. competitor's adhesive.



Storage Performance

Room Temperature (23°C)

Full reclosure retained through all 10 cycles

Minimal tack change observed

Chilled (4°C)

No degradation in reclosability performance

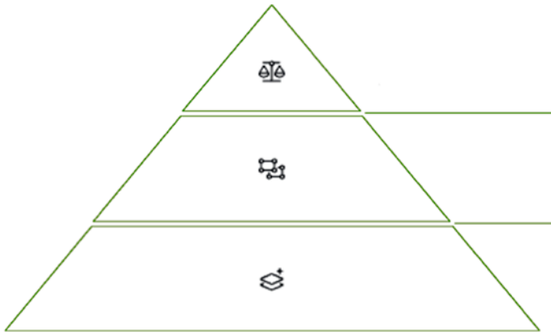
Consistent results across all 10 cycles

Frozen (-18°C)

No degradation in reclosability performance

Maintained adhesion through all test cycles

Film Structure Optimization



Layer Balance

20% sealing layer,
30% adhesive layer

Cohesive Failure

Adhesive splits within itself for clean separation

Asymmetrical Films

Can maintain performance if properly balanced

The thickness ratio between sealing and adhesive layers directly affects opening force and reseal performance. If sealing layer thickness is reduced, increase adhesive thickness accordingly to maintain optimal performance.

RC 0C9342 VLD is designed to fail cohesively — splitting within the adhesive and sticking to itself. This ensures clean, even separation and reliable reseal performance across multiple cycles.

Processing conditions

Cooled Hooper and chilled Feeding system

Water cooling of the feed zone is essential to preventexcessive heating of the resin, as it enters the screw

PSA screw and smooth barrel

C93 adhesives work well on pressure sensitive adhesive screw design with the following properties:

- L/D of at least 24:1
- Diameter 60mm-70mm
- At least three heating zones
- Water-cooled feeding zone

	Cast	Blown
Feed Zone	25°C	25°C
Zone 1	180°C	180°C
Zone 2	220°C	200°C
Zone 3	220°C	210°C
Zone 4	220°C	210°C
Zone 5	220°C	210°C
Adapter	220°C	220°C
Die	220°C	220°C

Packaging and Storage

Material should be stored in a cool dry place in the original unopened package at a temperature less than 30°C.

Keep away from steam lines and heated process equipment during storage to prevent blocking.

Keep package closed to minimize contamination.

Kafrit Group

Please request for further information:

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

BOPE
Innovative solutions for flexible packaging films
with CONSTAB GER® CON-X® Masterbatches

Functionalities: Ecocell® – Lighten up!
An innovative foaming agent
to reduce material and resin consumption

Functionalities: Kafrit Group Antioxidants
Reliable protection for your plastic products

Flame Retardants
Enlightening solutions with Kafrit Group Masterbatches
and 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

Color and additive masterbatches and conductive compounds made to measure
Customized solutions for your success

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

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PLASTICS-APP
If you can imagine it, we can compound it.

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