

# KafritGroup<sup>®</sup>

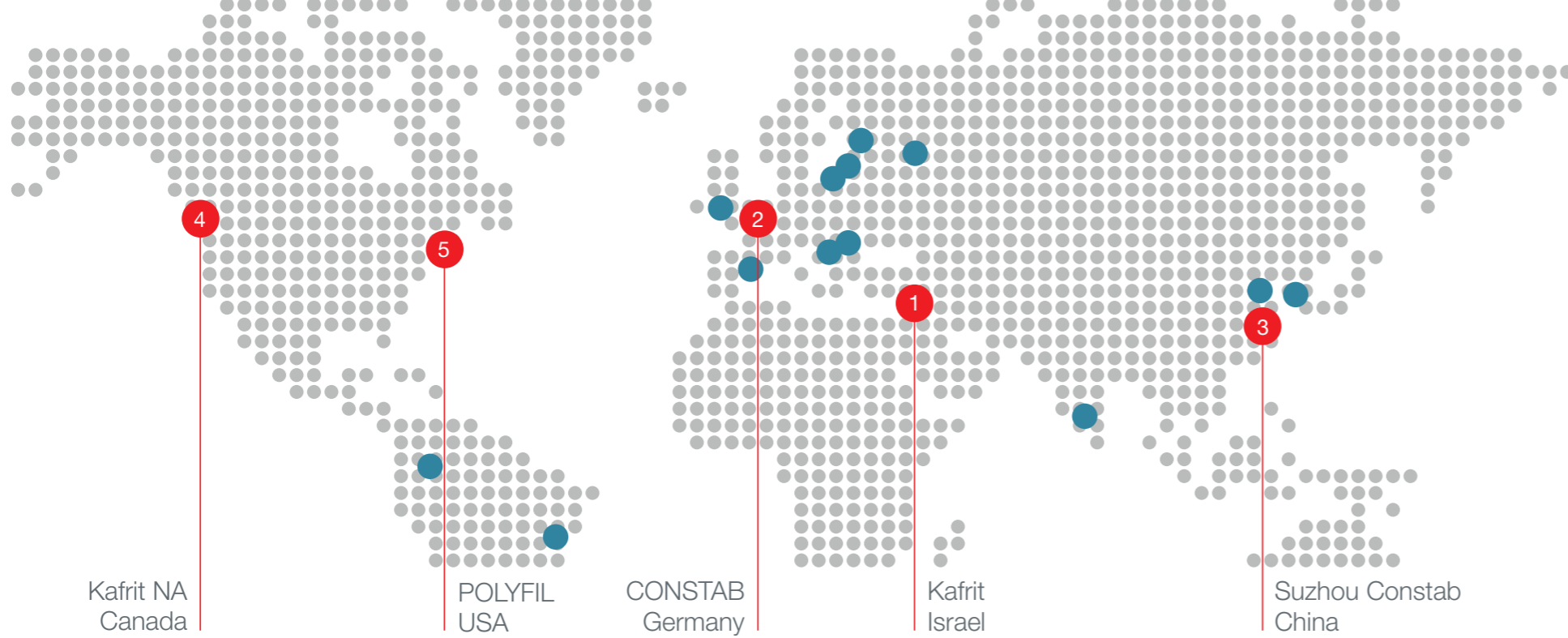


## Pipes and Sheets

Customized solutions with  
Kafrit Group Masterbatches and Compounds



Giving Life to **Plastic**



● Kafrit production sites  
● Agencies/Distribution

## Defining new production goals: Experience the new high performance products.

Kafrit Group is a leading producer of Masterbatches and Compounds for the plastics industry and currently employs more than 400 people. In 2017, the Group achieved 216 million \$ turnover with an available capacity of more than 82,000 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 and the Canada-based Kafrit NA Ltd.** With nearly 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. Along with many other products, the Kafrit Group supplies the following Masterbatches and Compounds:

- Acid Scavenger
- Antiblock
- Antidust
- Antifog
- Antiglare
- Antimicrobial Agent
- Antimist
- Antioxidant
- Antislip
- Antistatic
- Barrier MB
- Cavitating Agent
- Color Concentrate
- Ecocell®
- Flame Retardant
- Filler
- Foaming Agent
- IR Absorber
- Light Stabilizer
- Lubricant
- Matting Agent
- Metal Deactivator
- Modifier
- Nucleating Agent
- Optical Brightener
- Paper-like Compound
- Peel Compound
- Processing Aid
- Purge Agent
- Release Agent
- Slip-Antiblock
- Slip-Antistatic
- Slip Agent
- Tracer MB
- UV Absorber
- UV Blocker
- White Masterbatch
- White Cavitated

### 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 400 people that work on innovative products and make use of our vast pool of knowledge that we developed in nearly 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 cooperation with well-known suppliers including machine manufacturers that do recommend our products for use in combination with their machines.

**Our vision:**  
We aim to be the preferred technological partner of the plastics industry by continually supplying our global customers with innovative and high quality solutions that are fitted to their specific needs.



## Our tailor-made solutions – exceeding your expectations.

### Check Kafrit Group's latest Halogen-Free Flame Retardant Masterbatches:

- Unique performance in sheets, pipes and foams made of PE, PP, PS.
- Applicable in sheets, pipes and others
- Suitable for translucent to transparent articles
- Excellent UV stability

### New Halogen-Free Flame Retardant Masterbatches open new market opportunities:

- High efficiency
- Low dosing levels
- Good optical properties
- High UV light resistance

### Further advantages are:

- Easy processing in many articles made from polyolefins
- Suitable as replacement of existing systems as well as for new market opportunities
- Dedicated grades for various fire standards provide optimum performance

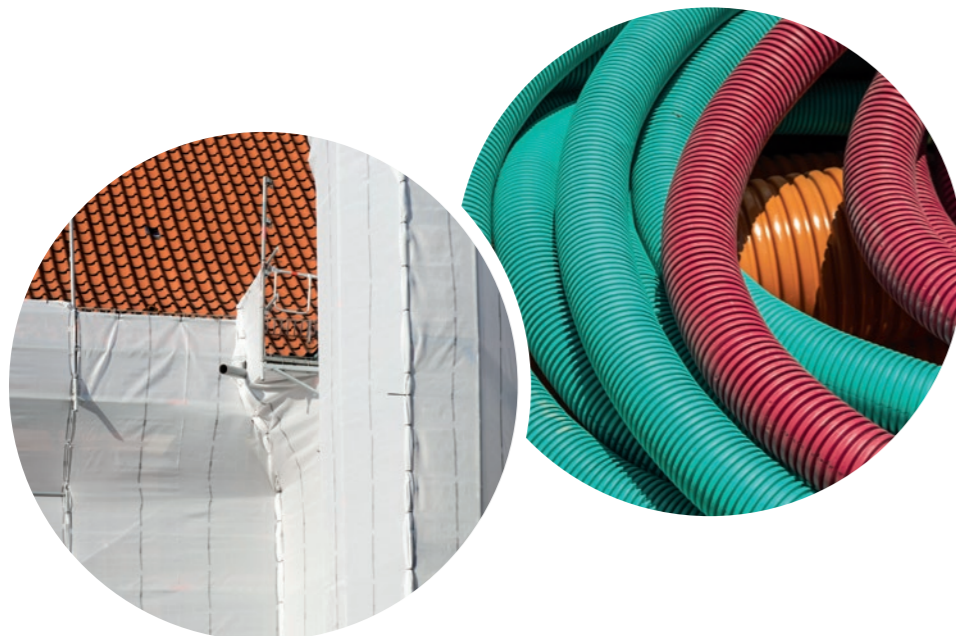
Our products are performing where conventional systems fail.

“Kafrit takes full responsibility for their products, keep to their word on delivery and lead time and have an excellent reputation.”

## 1. Flame Retardants

Code	Application	Description	Dosing %
FR 0B041 LD	Films, foams	<b>Chlorinated FR masterbatch</b> LPS 1207, FMVSS 302, UL94, DIN 4102 B1, B2, EN 13501-1.	4.0–10.0
FR 07167 LD	Pipes, sheets, foams	<b>Chlorinated flame retardant masterbatch</b> Provides flame retardancy according FMVSS 302, UL-94, DIN 4102-1, EN 13501-1.	3.0–20.0
FR 0244A PP	Foams	<b>Brominated FR masterbatch</b> LPS 1207, FMVSS 302, UL94, DIN 4102 B1, B2, EN 13501-1.	2.0–10.0
FR 00R58A PS	Foams	<b>Polymeric Brominated FR masterbatch</b> DIN 4102 B1, B2. Suitable for flame retarding foamed PS (XPS). Based on Polymeric FR, which does not bloom. <b>HBCD free.</b>	2.0–7.0
FR 00U54 PS	Foams	<b>Monomeric brominated flame retardant + synergist + nucleation masterbatch</b> DIN 4102 B1, B2, EN 13501 E. Suitable for flame retarding foamed PS (XPS).	2.0–5.0
FR 00284 PS	Foams	<b>Monomeric brominated flame retardant + synergist + nucleation masterbatch</b> DIN 4102 B1, B2, EN 13501 E. Suitable for flame retarding foamed PS (XPS).	2.0-5.0
FR 07180 LD	Pipes, sheets, foams	<b>Brominated flame retardant masterbatch</b> Provides flame retardancy according FMVSS 302, UL-94, DIN 4102-1, EN 13501-1.	3.0–20.0
FR 0D200 LL	Sheets, profiles, films, pipes	<b>Brominated FR masterbatch</b> LPS 1207, FMVSS 302, UL94, DIN 4102 B1, B2, EN 13501-1, EN 61386-1, available in many different colours	3.0–10.0
FR 0D400 LL	Sheets, profiles, pipes	<b>Brominatd FR and synergist masterbatch</b> LPS 1207, FMVSS 302, UL 94, DIN 4102 B1 and B2, EN 13501-1, EN 61386-1.	3.0–10.0
FR 00T64 LD	Sheets, profiles, pipes	<b>Brominated FR masterbatch</b> LPS 1207, FMVSS 302, UL94, DIN 4102 B1, B2, EN 13501-1.	4.0–40.0
FR 00S83 LL	Sheets, profiles, pipes	<b>Brominated FR masterbatch</b> LPS 1207, FMVSS 302, UL94, DIN 4102 B1, B2, EN 13501-1.	5.0–25.0

Code	Application	Description	Dosing %
HFFR 00228 PP	Sheets, profiles, pipes	<b>Halogen-free FR masterbatch</b> LPS 1207, UL94 , EN 61386-1, low smoke standards, low HRR.	2.5–7.0
HFFR 00165 LD	Sheets, profiles, pipes	<b>Halogen-free FR masterbatch</b> UL94 V0, suitable for injection molding and extrusion (PE/PP).	20.0–40.0
HFFR 00T84 PP	Sheets, profiles, pipes	<b>Halogen-free FR masterbatch</b> UL94 V0, suitable for injection molding and extrusion (PP).	20.0–40.0
HFFR 00U42 ABS	Sheets	<b>Halogen-free FR masterbatch</b> UL94 (ABS+HIPS).	30.0–40.0
FR 0M09B ABS	Sheets	<b>Brominated FR masterbatch</b> UL94 V0.	18.0–30.0
FR 00035 ABS	Sheets	<b>Brominated FR masterbatch</b> UL94 5V, V0 (ABS+HIPS + PC/ABS).	4.0–25.0
HFFR 00437 ABS	Sheets	<b>Halogen-free FR masterbatch</b> UL94 V0 (PC/ABS for ratios such as 80/20, 70/30).	20.0–30.0
ZHFR 07175 LD	Pipes, sheets	<b>Zero halogen flame retardant masterbatch</b> Provides flame retardancy according FMVSS 302, UL-94, DIN 4102-1, EN 13501-1.	2.0–12.0
ZHFR 07179 UNI	Pipes, sheets	<b>Zero halogen flame retardant masterbatch</b> Provides flame retardancy according NF P 92-503 including NF P 92-504, NF P 92-505 for classification M1 to M4.	10.0–18.0



## 2. UV's for pipes with long term duration

Code	Application	Description	Dosing %
UV 01006 LD	Sheets	UV-absorber with HALS.	1.0–10.0
UV 01017 PP	Sheets	20 % HALS stabilizer.	1.0–5.0
UV 01370 PP	Pipes, sheets	20 % HALS stabilizer for extreme demands.	1.0–5.0

## 3. Antiblock

Code	Application	Description	Dosing %
AB 06001 PP	Sheets	5% synthetic silica with 4 µm particle size.	1.0–2.0
AB 08020 LD	Sheets	Standard natural silica.	1.0–2.0

## 4. Antistatic

Code	Application	Description	Dosing %
AT 04139 PP	Pipes, sheets	For short- and long-term antistatic effect.	1.0–6.0
AT 04673 LD	Pipes, sheets	For short- and long-term antistatic effect. Effective at low humidity level.	1.0–6.0
AT 04017 LD	Foam	For short-term antistatic effect. For cell stabilization in foams.	1.0–2.0

## 5. Matt

Code	Application	Description	Dosing %
MAT 02450	Sheet	Matt compound with SIT >120°C.	100,0
MAT 02490	Sheets	Matt compound with SIT 110°C.	100,0
MAT 02440	Sheets	Antislip matt compound.	100,0

## 6. Peel

Code	Application	Description	Dosing %
CONPEEL 308 PP	Sheets	For printed and colored sheets; peel force 8–10 N/15 mm.	100,0
CONPEEL 370 PP	Sheets	For transparent, printed and colored sheets; peel force 4–8 N/15 mm.	100,0

## 7. Antioxidants

Code	Application	Description	Dosing %
ST 03003 PP	Pipes, sheets	For processing and long-term heat stabilization, in particular water pipes, machine shut-down, rework.	0.5–10.0
ST 03040 LD	Pipes, sheets	For processing and long-term heat stabilization, machine shut-down, rework.	1.0–3.0
ST 03001 LD	Pipes	For long-term heat stabilization.	1.0–3.0

## 8. White

Code	Application	Description	Dosing %
CC 18162 PP	Sheets	60 % Titanium dioxide.	2.0–25.0
CC 12720 LD	Pipes, Sheets, Foams	70 % Titanium dioxide.	1.0–20.0

## 9. Processing Aid

Code	Application	Description	Dosing %
PA 00833 LD	Pipes, Sheets	Reduces die build-up and extruder pressure; improves surface quality.	0.5–4.0
PA 00852 PP	Pipes, Sheets	Reduces die build-up and extruder pressure especially at very high melt temperatures up to 310 °C.	1.0–5.0

## 10. Nucleating

Code	Application	Description	Dosing %
NC 00602 PP	Sheets	Clarifier for improved optical and mechanical properties.	1.0–2.5
NC 00625 LD	Foam	Nucleating agent and cell stabilizer.	2.0–6.0

## 11. Slip

Code	Application	Description	Dosing %
CONSLIP 205 HD	Pipes	Permanent slip agent, in particular for inner layers of cable ducts	0.5–10.0
SL 05004 LD	Foam	5 % Erucamide	0.5–2.0

## 12. Purge

Code	Application	Description	Dosing %
PR 00701 LD	Pipes, sheets, foams	Purge compound.	50

## 13. Desiccant

Code	Application	Description	Dosing %
DS 0C64A LD	Pipes, sheets	Prevents moisture bubbles.	1.0–6.0

## 14. UV Absorber

Code	Application	Description	Dosing %
UVA 01034 PP	Sheets	Organic UV absorber applicable in transparent sheets > 80 µm.	1.0–5.0
UVA 01490 LD	Sheets	Inorganic UV absorber applicable in transparent sheets > 80 µm.	2.0–5.0

## 15. Blowing Agents

Code	Application	Description	Dosing %
Ecocell® L	Foam	Micro cellular patented endothermic solution.	1.5–2.5
Ecocell® P	Foam	General purpose for PE, PP, PS.	1.5–2.5
Ecocell® H1	Foam	High active for PE, PP, PS.	1.5–2.5
Ecocell® GTL-3	Foam	For PET, ABS, PC/ABS, PLA.	1.5–2.5
Ecocell® CS	Foam	For sheets, pipes, profiles.	1.5–2.5



## Our Values:

**Technology:** We continue to rely on advanced know-how and technologies, securing our future.

**Quality:** We warrant our products are produced under strict and advanced quality assurance guidelines.

**Safety:** We ensure our employees always follow safety procedures.

**Environment:** We are committed to complying with environmental regulations and promoting environmental responsibilities.

**Employees:** We value the different ideas, experiences and backgrounds of our employees.

**Leadership:** We lead by example. We coach, educate and guide our workforce enabling them to achieve their full potential.

**Empowerment:** We encourage our employees to be innovative, make decisions and take responsibility for their actions.

**Teamwork:** We strive to work as a team and individuals, reaching our common goals.

**Continuous Improvement:** We are constantly striving to do the right things even better.

**Ethics:** We are fair, truthful, and consistent in our business and personal practices



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

## KafritGroup®

### Kafrit

**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



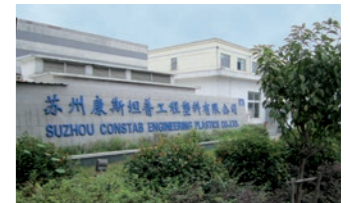
### CONSTAB

**CONSTAB Polyolefin Additives GmbH**  
Industriestrasse Möhnetal 16  
59602 Rülten, Germany  
Tel: +49 2952 8190 | Fax: +49 2952 3140  
info@constab.com | www.constab.com



### SUZHOU CONSTAB

**Suzhou Constab Engineering Plastics Co., LTD**  
Suzhou Constab Engineering Plastics Co., Ltd.  
No. 85 Liaobang Road, Tongli Town, Wujiang District,  
Suzhou, Jiangsu 215217, China.  
Tel: +86 512 6333 1654 | Fax: +86 512 6333 6987  
info@constab.cn | www.constab.cn



### Kafrit NA Ltd.

**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

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



Giving Life to **Plastic**

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**Please request for further information:**

- **Optimizing BOPP film production**  
with CONSTAB Masterbatches and Compounds
- **BOPE – Sustainable solutions  
for flexible packaging films**  
with CONSTAB® CON-X Masterbatches
- **Polyethylene Packaging · Polypropylene Cast  
and Calender Films**  
Rolling to success with Kafrit Group Masterbatches  
and Compounds
- **Ecocell® – Lighten up!**  
A revolutionary foaming agent  
to reduce material and resin consumption
- **Polycarbonate and PMMA Sheets**  
for a transparent view with  
Kafrit Masterbatches and Compounds
- **Agricultural Film**  
Growing success with Kafrit Group  
Masterbatches and Compounds
- **Kafrit Group Antioxidants**  
Reliable protection for your plastic products
- **Injection Molding · Blow Molding**  
Injecting new ideas into your products with  
Kafrit Group Masterbatches and Compounds
- **Strong protection, easy peeling**  
with CONSTAB CONPEEL® Compounds
- **Adding value to Fibers and Nonwovens**  
with Kafrit Group Masterbatches
- **Packaging your needs**  
PET Masterbatches and Compounds

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