

CONSTAB[®]

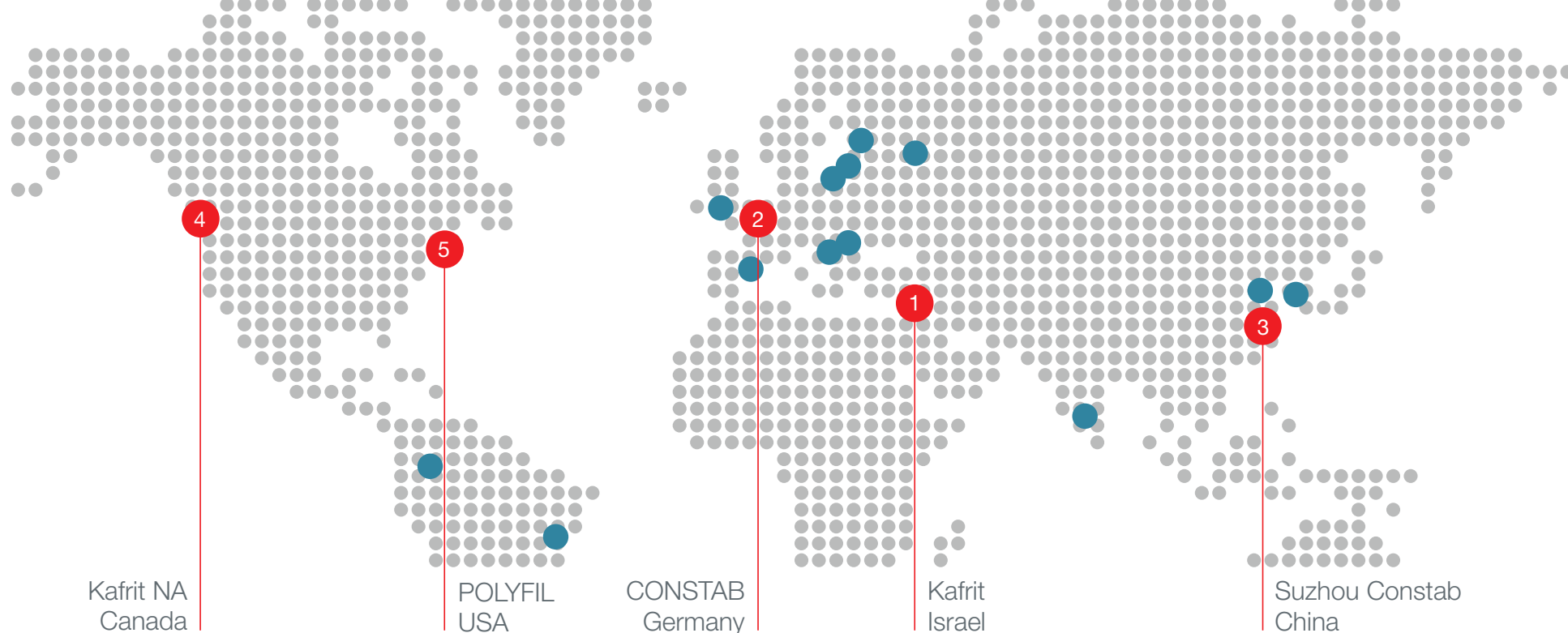
Member of **KafritGroup**

Optimizing BOPP film production

with CONSTAB[®] Masterbatches and Compounds



Giving Life to **Plastic**



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 co-operation 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.

1. Antiblocking

Antiblocking masterbatches are necessary to avoid film blocking on the reel. Furthermore these masterbatches have a relevant effect on other properties of the film such as, for instance, optical properties, coefficient of friction, printing and metallization quality. Thanks to our experience in the production of antiblocking masterbatches and due to the availability of a wide range of raw materials of different chemical nature and particles sizes, we can help our customers with every sort of appliance.

Code	Description	Dosing (%)	Special feature	Haze	COF	Printability	High Barrier Metallizable Film	Metallizable
AB 06001 PP	10% synthetic silica (5 µm) in homopolymer	0.5 – 2.5	cost saving	0	0	+	-	-
AB 06019 PP	5% synthetic silica (5 µm) in homopolymer	1.0 – 5.0	easy dosing	0	0	+	-	-
AB 06019 PPR	5% synthetic silica (5 µm) in terpolymer	1.0 – 5.0	easy dosing	0	0	+	-	-
AB 06089 PPR	6% synthetic silicate (3 µm) in copolymer	2.0 – 5.0	metallizable film	+	+	++	0	+
AB 06095 PP	5% synthetic silicate (3 µm) in homopolymer	1.0 – 3.0	low haze plain film	++	0	++	0	+
AB 06059 PPR	5% PMMA (2µm) in copolymer	2.0 – 6.0	for thin skin layer	+	+	++	+++	+++
AB 06060 PPR	5% PMMA (4µm) in copolymer	2-0 – 6.0	easy dosing	++	++	+	+	++
AB 06090 PPR	7.5% PMMA (4µm) in copolymer	2.0 – 4.0	cost saving	++	++	+	+	++
AB 06084 PPR	7.5% PMMA (6µm) in copolymer	2.0 – 4.0	for thick skin layer and high roughness, e.g. matt layer	+	++	0	0	0
AB 06062 PPR	5% x-linked siloxane (2µm) in copolymer	2.0 – 5.0	for thin skin layer	++	++	++	+++	+++
AB 06064 PPR	5% x-linked siloxane (4µm) in copolymer	2.0 – 5.0	excellent COF modulation	+++	+++	+	++	++
Evaluation: excellent +++ recommended ++ good + basic 0 not recommended -								

2. Slip

Slip masterbatches are used to modulate the coefficient of friction (COF) of BOPP films. Besides the COF modulation other factors as optical properties and printability have to be respected. In order to achieve the desired targets for each specific application, we can offer a full range of masterbatches containing migrating or non-migrating slip additives.

Code	Description	Dosing (%)	Special feature	COF	Hot Slip	Low Blooming	Printability
SL 05035 PP	6% erucamide in homopolymer	1.0 – 3.0	general purpose	++	-	-	+
SL 05068 PP	10% erucamide in homopolymer	0.5 – 1.5	cost saving	++	-	-	+
SL 05004 PPR	5% erucamide in copolymer	1.0 – 3.0	for skin layer	++	-	-	+
SL 05005 PP	5% high molecular weight amide in homopolymer	1.0 – 3.0	low blooming	+	+	+	++
SL 05080 PPR	10% silicone oil in copolymer	5.0 – 10.0	easy dosing, long term slip	++	+++	n.a	-
SL 05095 PPR	20% silicone oil in copolymer	2.5 – 5.0	cost saving, long term slip	++	+++	n.a	-
Evaluation: excellent +++ recommended ++ good + basic 0 not recommended - not applicable n.a.							
Remarks: Depending on the final application a wide range of dosing levels is indicated. Please contact us for more information.							



Many thanks to Brückner Maschinenbau GmbH for kindly providing the pictures.

3. Slip-Antiblocking

Slip-Antiblocking masterbatches combine established ratios of slip agents and antiblocking particles in one masterbatch. This eliminates the necessity to add slip and antiblocking masterbatches separately during an extrusion process. It is an easy and comfortable way to reduce costs and efforts in many standard BOPP film applications.

Code	Description	Dosing (%)	Special feature	COF	Hot Slip	Printability	Metallizable	Low Blooming
SAB 06532 PPR	synthetic silica and silicone oil in terpolymer	7.0 – 12.0	tobacco film	++	++	-	-	n.a.
SAB 06522 PPR	synthetic silica and silicone oil in terpolymer	3.0 – 6.0	low haze tobacco film	++	++	-	-	n.a.
SAB 06554 PPR	organic antiblocking agent and non-migrating slip agent in terpolymer	3.0 – 10.0	high speed packaging film	++	++	+(o.s.)	+(o.s.)	n.a.
SAB 06597 PPR	special blend of anti-blocking and non-migrating slip agents in terpolymer	3.0 – 6.0	tobacco film, printable	++	++	+(o.s.)	-	n.a.

Evaluation: excellent +++ recommended ++ good + basic 0 not recommended - not applicable n.a. opposite side o.s.

Remarks: Customized formulations are available on request.

4. CONSLIP

CONSLIP is a new philosophy for permanent slip which is intended to replace existing migrating slip agents. Films formulated with CONSLIP provide stable very low COF independent of aging, hot slip properties and is compatible with printing and metallization.

Code	Description	Dosing (%)	Special feature	COF	Hot Slip	Printability	Metallizable
CONSLIP 201 PPR	low concentrated permanent slip in terpolymer, anti-block free	2.5 – 12.0	easy dosing	++	+++	+(o.s.)	+(o.s.)
CONSLIP 201 PP	permanent slip in homopolymer, antiblock free	3.0 – 6.0	very low COF	+++	+++	+(o.s.)	+(o.s.)
CONSLIP 202 PPR	high concentrated permanent slip in terpolymer, anti-block free	1.5 – 6.0	cost saving	++	+++	+(o.s.)	+(o.s.)
CONSLIP 420 PPR	permanent slip synergistic blend, formulated with antiblock	3.0 – 6.0	thin skin layer	++	+++	+(o.s.)	+(o.s.)
CONSLIP 440 PPR	permanent slip synergistic blend, formulated with antiblock	3.0 – 6.0	standard skin layer	++	+++	+(o.s.)	+(o.s.)

Evaluation: excellent +++ recommended ++ good + basic 0 not recommended - opposite side o.s.



5. Antistatic

Antistatic masterbatches are used to avoid static charging of BOPP films. Each application, for instance labels, packaging films, industrial films, requires different antistatic performance. In order to achieve the desired targets for each specific application, we can offer a full range of antistatic masterbatches.

Code	Description	Dosing (%)	Special feature	COF	Printability	Food contact	Low Blooming
AT 04082 PP *	balanced formulation for immediate and long term performance	1.0 – 4.0	general purpose	0	+	EU and FDA	0
AT 04130 PP *	recommended for print-/lamination films with excellent optical properties	1.0 – 7.0	stable surface tension	++	+++	FDA	++
AT 04061 PP	recommended for tobacco film	1.0 – 4.0	low blooming	0	++	EU and FDA	++
AT 04190 PP	recommended for labels and release films	1.0 – 4.0	low blooming, low contamination for cold seal	0	+++	EU and FDA	++
Evaluation:	excellent +++ recommended ++ good + basic 0 not recommended -						
Remarks:	* Double concentrated Masterbatch available from Suzhou Constab Engineering Plastics Co. LTD.						



6. Slip-Antistatic

Slip-Antistatic masterbatches combine established ratios of slip and antistatic agents in one masterbatch. This overcomes the necessity to add slip and antistatic masterbatches separately during film extrusion. It is an easy and comfortable way to reduce costs and efforts in many standard BOPP film applications.

Code	Description	Dosing (%)	Special feature	COF	Hot Slip	Printability	Low Blooming
SAT 04504 PP	Combined slip- and antistatic agents for medium COF	2.0 – 5.0	hot climate, cost efficient	+	0	++	++
SAT 04505 PP	Combined slip- and antistatic agents for low COF (contains optical brightener)	1.0 – 3.0	cold climate	++	-	+	0
SAT 04509 PP *	Combined slip- and antistatic agents for medium COF	1.0 – 3.0	cold climate	+++	-	+	0
SAT 04550 PP *	Combined slip- and antistatic agents for medium COF	2.0 – 5.0	hot climate	++	+	++	++
Evaluation:	excellent +++ recommended ++ good + basic 0 not recommended -						
Remarks:	* Double concentrated Masterbatch available from Suzhou Constab Engineering Plastics Co. LTD. Customized formulations are available on request.						

7. White

Highly dispersed White masterbatches specially designed to obtain high opacity, gloss and whiteness.

Code	Description	Dosing (%)	Special feature
CC 18160 PP	60% titanium dioxide in homopolymer	5.0 – 25.0	excellent dispersion, cold white shade
CC 18162 PP	60% titanium dioxide in homopolymer	5.0 – 25.0	excellent dispersion, warm white shade
CC 18170 PP	70% titanium dioxide in homopolymer	3.0 – 20.0	excellent dispersion, cold white shade, cost saving

8. Cavitating/White-Cavitating

Cavitating masterbatches are used to produce voided films with reduced density and high opacity, which represents a great opportunity to enhance the appeal of your packaging. Each application, for instance labels and packaging films requires different specific weight, optical and mechanical properties. In order to achieve the desired targets for each specific application, we can offer a wide range of cavitating masterbatches and white-cavitating combibatches.

8.1 Cavitating

Code	Description	Target density	Dosing (%)	Special feature	Gloss	Opacity	Metallizable
FL 08206 PP	70% calcium carbonate in homo-polymer	0.55 – 0.65	9.0 – 18.0	coarse particle size	+	+	++
FL 08211 PP	70% calcium carbonate in homo-polymer	0.70 – 0.80	9.0 – 18.0	fine particle size	++	++	++
Evaluation: excellent +++ recommended ++ good + basic 0 not recommended -							

8.2 White-/Cavitating

Code	Description	Target density	Dosing (%)	Special feature	Gloss	Opacity	Metallizable
FL 18209 PP	For low density films, ice cream wrapping, suitable for cold seal packaging	0.55 – 0.65	12.0 – 20.0	coarse particle size	+	++	+
FL 18103 PP	For medium density films, multipack wrapping, confectionary	0.70 – 0.80	12.0 – 20.0	fine particle size	++	+++	+
FL 18140 PP	Special blend of fillers and pigments for in mould labels	< 0.60	12.0 – 20.0	deep cavitation	+	++	+
FL 18214 PP NEW!	For low density films, wrap around label	0.60–0.65	12.0–20.0	synergistic blend	++	++	+
Evaluation: excellent +++ recommended ++ good + basic 0 not recommended -							
Remarks:	Custom combinations of pigments and cavitating agents are available on request.						

9. CONCAVITY®

CONCAVITY® helps to reduce the risk of delamination in white-cavitated films. The usage of CONCAVITY® provides improved optical and mechanical properties compared to conventional cavitating agents. Also films with a lower density can be achieved.

Code	Description	Target density	Dosing (%)	Special feature	Gloss	Opacity	Metallizable
CONCAVITY 600 PP NEW!	60% Organic cavitating agent; broad density range, advanced optical and mechanical properties	0.55–0.7	5.0–15.0	excellent dispersion	+++	++	+++
Evaluation: excellent +++ recommended ++ good + basic 0 not recommended -							

10. Matt Compound

Matt Compounds are mainly used to achieve special aesthetic effects as matt/silky appearance. We can offer a wide range of matt compounds to obtain different targets for haze, gloss, coefficient of friction and sealability.

Code	Description	SIT	Dosing (%)	Special feature	Low Gloss	Haze
MAT 02440	sealable matt compound for packaging applications	110 – 115°C	100	ERS/CAV: general purpose	+	+
MAT 02448	sealable matt compound for packaging applications	110 – 115°C	100	high haze	++	++
MAT 02490 NEW!	sealable matt compound for packaging applications	110–115°C	100	improved processibility, high haze	++	++
MAT 02495 NEW!	sealable matt compound for packaging applications	70–75°C	100	very low SIT	+	+
MAT 02444	sealable matt compound for easy stacking	105 – 110°C	100	anti-slip property	+	+
MAT 02450	matt compound for graphic arts applications and paper lamination	> 120°C	100	high thermal resistance	++	++
MAT 02420	special matt compound for in-mould labels	-	100	high melt flow, good melt reception	n.a.	n.a.
Evaluation: excellent +++ recommended ++ good + basic 0 not recommended - not applicable n.a.						

11. Paper-like compound

These compounds are applied in the outer layers of BOPP films to simulate the appearance of a paper surface.

Code	Description	Dosing (%)	Special feature
MA 00960	Skin layer compound for paper-like appearance, labels, graphic arts, packaging	100	writable surface, suitable for printing

12. Modifier

With CONSTAB Modifier masterbatches manifold benefits can be achieved. Apart from well-established applications such as shrinkable BOPP tobacco films, modifier masterbatches can also be used for other applications like label films, metallizable films and transparent food packaging where enhanced mechanical and optical properties, increased gas barrier, or a better processability is required.

Code	Description	Dosing (%)	Special feature	Low haze	Shrinkage	Stiffness	Barrier	Processing aid
MA 00929 PP	60% hydrogenated C9 resin in homopolymer	10.0 – 20.0*	high shrinkable films, tobacco films	+++	+++	++	+	++
MA 00930 PP	60% hydrogenated C5 resin in homopolymer	10.0 – 20.0*	barrier films	++	++	++	+++	++
Evaluation:	excellent +++ recommended ++ good + basic 0 not recommended -							
Remarks:	*Depending on the final application a wide range of dosing levels is indicated. Please contact us for more information.							

13. Antifog

Fogging is a term used to describe the condensation of water vapor on a transparent plastic film in form of droplets. Antifog additives incorporated into the plastic film migrate to the surface and prevent the formation of water droplets. The result is a clear transparent film.

Code	Description	Dosing (%)	Special feature	COF	Printability	Food contact	Low Haze
AF 00238 PP	antifog agent for food packaging applications	1.5 – 2.5	cold fog and hot fog	+	+	FDA	+
AF 00240 PP	antifog agent for food packaging applications	3.0 – 5.0	cold fog	0	+	EC	+
Evaluation:	excellent +++ recommended ++ good + basic 0 not recommended -						

14. Processing Aid

Processing Aids are used to reduce the accumulation of die deposit so that the production intervals are much longer before a production stop is necessary to clean the extruder. The products in our portfolio are suitable for different necessities and applications.

Code	Description	Dosing (%)	Special feature	Die build-up reduction	Torque reduction	Temperature resistance	Gloss im-provement
PA 00833 PPR	For improved gloss and reduced die build-up	0.5 – 3.0	recommended for tobacco film	++	+	+	++
PA 00852 PPR	For improved processability, torque reduction, gauge control	1.0 – 5.0	high temperature resistance indicated for matt films	+	+++	++	+
PA 00852 PP	For improved processability, torque reduction, gauge control	1.0 – 5.0	high temperature resistance	+	+++	++	+
Evaluation:	excellent +++ recommended ++ good + basic 0 not recommended -						

15. CONRELEASE

Cold seal packaging requires opportune releasing film surface in order to prevent blocking of the reels. We can offer an optimal solution, which is silicone oil free. This prevents any contamination and assures the best seal strength and cold seal anchorage.

Code	Description	Dosing (%)	Special feature	COF	Haze
CONRELEASE 520 PP	Releasing agent for production of cold seal release films	4.0 – 6.0	silicone oil free no cold seal contamination	+++	++
Evaluation: excellent +++ recommended ++ good + basic 0 not recommended -					

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



Polypropylene Cast and Calender Films

1. Antiblock

Industrial and Food Packaging Film		
Code	Description	Dosing %
AB 06019 PP	5 % synthetic silica with 4 µm particle size	1.0 – 4.0
AB 06001 PP	10 % synthetic silica with 4 µm particle size	1.0 – 2.0
AB 06064 PPR	5 % organic round antiblocking agent for very transparent films.	2.0 – 5.0
AB 06089 PPR	6 % inorganic round antiblocking agent for metallizable films.	2.0 – 5.0

2. Slip

Industrial and Food Packaging Film		
Code	Description	Dosing %
SL 05035 PP	6 % erucamide	0.5 – 2.0
CONSLIP® 201 PPR	Permanent slip agent.	3.0 – 7.0

3. Slip Antiblock

Industrial and Food Packaging Film		
Code	Description	Dosing %
SAB 06527 PPR	5 % synthetic silica 4 µm and 5 % erucamide	1.0 – 4.0
CONSLIP® 440 PPR	Permanent slip and organic antiblocking agent.	3.0-10.0

4. Antistatic

Industrial and Food Packaging Film		
Code	Description	Dosing %
AT 04145 PP	For long-term antistatic effect	1.0 – 6.0
AT 04143 PP	For short- and long-term antistatic effect.	1.0 – 6.0

5. Slip Antistatic

Industrial and Food Packaging Film		
Code	Description	Dosing %
SAT 04509 PP	For short- and long-term antistatic effect, with 5 % erucamide.	1.0 – 5.0

6. Processing Aid

Industrial and Food Packaging Film		
Code	Description	Dosing %
PA 00833 PP	Reduces die build-up and extruder pressure; improves surface quality.	0.5 – 3.0
PA 00852 PP	Reduces die build-up and extruder pressure especially at very high melt temperatures up to 310 °C.	1.0 – 5.0
PA 0K060 PP	Reduces die build-up and improves processing in cast PP.	1.0 – 5.0

7. Color

Industrial and Food Packaging Film		
Code	Description	Dosing %
CC 18162 PP	60 % Titanium dioxide	2.0 – 25.0
CC 18170 PP	70 % Titanium dioxide	1.0 – 20.0

8. Antifog

Industrial and Food Packaging Film		
Code	Description	Dosing %
AF 00262 PPR	For cold- and hot-fog application.	7.0 – 15.0

9. Antioxidant

Industrial and Food Packaging Film		
Code	Description	Dosing %
ST 03003 PP	For processing and long-term heat stabilization, machine shut-down, rework.	0.5 – 10.0

10. Nucleating Agent

Industrial and Food Packaging Film		
Code	Description	Dosing %
NC 00607 PP	Clarifier for improved optical and mechanical properties.	1.0 – 2.5

11. Peel compound

Industrial and Food Packaging Film

Code	Description	Dosing %
CONPEEL® 304 PP	For transparent, printed and colored films with sealing layers up to 20 µm; peel force 4 – 6 N/15 mm.	100
CONPEEL® 308 PP	For printed and colored films with sealing layers up to 20 µm; peel force 8 – 10 N/15 mm.	100
CONPEEL® 300 PP	For transparent, printed and colored films with sealing layers up to 20 µm; peel force 3 – 6 N/15 mm.	100
CONPEEL® 370 PP	For transparent, printed and colored films with sealing layers up to 20 µm; peel force 4 – 8 N/15 mm.	100
CONPEEL® 321 PP	For printed and colored films with sealing layers up to 20 µm; peel force 6 – 14 N/15 mm.	100

12. Barrier

Industrial and Food Packaging Film

Code	Description	Dosing %
BR 02017 PP	Improved barrier against oxygen and water vapour, increased stiffness and gloss, lower melt viscosity.	5.0-20.0

13. Flame Retardant

Industrial Film

Code	Description	Dosing %
FR 00242 PP	Halogen-free flame retardant masterbatch	3.5 - 8.0

14. UV

Industrial and Food Packaging Film

Code	Description	Dosing %
UV 01022 PP	20 % HALS stabilizer	0.5 – 5.0
UV 01370 PP	20 % HALS stabilizer for extreme demands	1.0 – 5.0

15. UV Absorber

Industrial and Food Packaging Film

Code	Description	Dosing %
UVA 01034 PP	Organic UV absorber applicable in transparent films > 80 µm.	1.0 – 5.0

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

KafritGroup®

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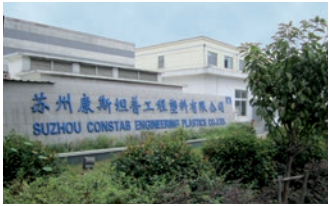
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Giving Life to Plastic

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Please request for further information:

- **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
- **Pipes and Sheets**
Customized solutions 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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