MPACET

MASTERBATCH SOLUTIONS FOR FILM APPLICATIONS

AMPACET

ADDRESSING YOUR NEEDS WHEREVER YOU ARE



WHITE MASTERBATCH SOLUTIONS



PREMIUM WHITE MASTERBATCHES

Ampacet Premium White Masterbatches are specially designed and recommended for high-end coextruded film applications where premium quality and outstanding performances are required.

											Appli	catio	ons	
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (*)	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure Benefits
-	111413-EA	LDPE	TiO ₂	70%	-	18	2.03	1120	Yes	х	Х	х		Very high performance & dispersion quality 70% White grade.
-	1101162-Е	LLDPE	TiO2	70%	-	18	2.04	1130	Yes	х	Х	х		High performance & dispersion quality 70% White grade.
-	11989-I	LDPE	TiO ₂	60%	-	13	1.74	970	Yes	х	Х	х		Very high performance & dispersion quality 60% White grade suitable for extrusion lamination.
-	1101506-E	LDPE	TiO ₂	50%	-	6(**)	1.50	850(**)	Yes	х	х	х		High performance & dispersion quality 50% White grade designed for cast and extrusion coating. Offers high stiffness for good mechanical properties. Suitable for label films.
WHITE 70B PF	412024-EB	Non- Phthalate Catalyst PP Homo	1102	70%	-	6.5 ⁽³⁾	2.00	1110	Yes	х	Х	Х		Phthalate-free high performance & dispersion quality 70% White grade especially designed for polypropylene films.
WHITE 95	413655	PP Homo	TiO ₂	60%	-	5 (3)	1.70	945	Yes	Х	Х	х		High performance & dispersion quality 60% White grade especially designed for polypropylene films.









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STANDARD WHITE MASTERBATCHES

Ampacet Standard White Masterbatches are specially designed and recommended for coextruded film applications requiring good quality standards.

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Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (°)	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Infrastructure	Benefits
-	1100183-EB	LLDPE	TiO ₂	75%	-	min 10	2.23	1250	Yes	Х	х	х		Standard quality 75% White grade designed for coextruded film requiring high opacity.
-	111844	LDPE	TiO ₂	70%	-	16	2.03	1100	Yes	Х	х	х		Standard quality 70% White grade designed for coextruded film requiring high opacity.
-	1101092-Е	LDPE	TiO2	70%	Antioxidant	22	2.03	1140	Yes	Х	х	х		Stabilized standard quality 70% White grade optimized to minimize die build-up formation.
-	112155	LDPE	TiO ₂	60%	-	17	1.72	980	Yes	Х	х	х		Standard quality 60% White grade designed for coextruded film requiring high opacity.
-	112272	LDPE/ LLDPE	TiO ₂	60%	CaCO ₃	min 2	2.30	1280	Yes	х	х	х		Standard quality 60% White grade offering a cost effective solution for coextruded film applications.
WHITE 97 PF	4100486-Е	PP Homo	TiO2	70%	-	11 (**)(3)	2.00	1060(**)	Yes	х	х	х		Phthalate-free standard quality 70% White grade. Especially designed for Polypropylene films.
WHITE 96 PF	4100018-E	PP Homo	TiO ₂	60%	-	6.5 ⁽³⁾	1.71	910	Yes	х	х	х		Phthalate-free standard quality 60% White grade. Especially designed for Polypropylene films.









COMMODITY WHITE MASTERBATCHES

Ampacet Commodity White Masterbatches are designed and recommended for low-end film applications requiring general purpose quality standards, offering a cost effective solution.

											Applic	atior	าร		
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (*)	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	11977-N	PE	TiO ₂	70%	-	min 2	2.03	1150	Yes	х	х				General purpose quality 70% White grade offering a cost effective solution for commodity films requiring high opacity .
-	11957-N	PE	TiO ₂	60%	-	min 2	1.73	970	Yes	х	х				General purpose quality 60% White grade offering a cost effective solution for commodity films.
-	1101204-Е	Post-Consumer Recycled PE	TiO2	60%	-	6	1.76	900	No	х	х			Х	General purpose 60% White grade on a post- consumer recycled polyethylene carrier resin.
-	11956-N	PE	TiO ₂	48%	CaCO ₃	min 2	2.22	1240	Yes	х	х				Economical general purpose quality 48% White grade offering a cost effective solution for commodity films.
-	11987-N	PE	TiO ₂	38%	CaCO ₃	min 2	2.04	1120	Yes	х	Х				Economical general purpose quality 38% White grade offering a cost effective solution for commodity films.









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WEATHERABLE WHITE MASTERBATCHES

Ampacet Weatherable White Masterbatches are designed and recommended for outdoor applications requiring a good resistance to Ultra-Violet (UV) light exposure. Depending on the application and conditions of use, it is recommended to use them in combination with UV stabilizing masterbatch solutions.

	Application										catio	ons			
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (*)	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	1100495-EB	LDPE	Outdoor TiO2	70%	-	17	2.04	1140	Yes	х	х		х	х	High dispersion quality weatherable 70% White grade with low moisture content designed for outdoor applications.
-	110790-A	LDPE/ LLDPE	Outdoor TiO ₂	60%	UV Stabilizer Antioxidant	min 10	1.76	990	Yes	х			х	х	Stabilized weatherable 60% White grade primarily designed for silage bale wrap film for use in Central and Southern Europe.







OTHER SPECIALTY WHITE MASTERBATCHES

Ampacet White Masterbatch range also includes other specialty grades.

											Appli	catio	ons		
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Donsity	EC Food Status	Industrial Packaging	ConsumerGoods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	11200	PE Copolymer	TiO ₂	70%	-	3	2.08	1150	Yes	х	х	х			Universal 70% White grade compatible with polar resins like PE copolymers (EMA, EVA,) as well as polyamide, polycarbonate and lonomers.
PAPERLOOK	1100170-Е	HDPE	Proprietary	Proprietary	Proprietary	4 (2)	1.68	980	Yes	Х	Х	х		х	White paper look & feel with good resistance to water & grease and no impact on organoleptic properties.
BIORANGE+	2100006-Е	PBAT	TiO ₂	70%	-	ND	2.41	1280(**)	Yes	х	х	Х		х	70% White masterbatch for coloring compostable end applications in compliance with composting norm EN 13432. TUV OK Compost INDUSTRIAL certified.
BIORANGE+ HOME	2100027-Е	PBAT	TiO ₂	70%	-	ND	2.27	ND	Yes	Х	х	Х		х	70% White masterbatch for coloring home compostable end applications. TUV OK Compost HOME certified.
BIORANGE+	2100004-Е	PLA	TiO ₂	60%	-	ND	2.15	1250 (**)	Yes	х	х	х		x	60% White masterbatch for coloring compostable end applications made of poly-lactic acid (PLA). Comply with EN13432 compostability norm requirements. TUV OK Compost INDUSTRIAL certified.

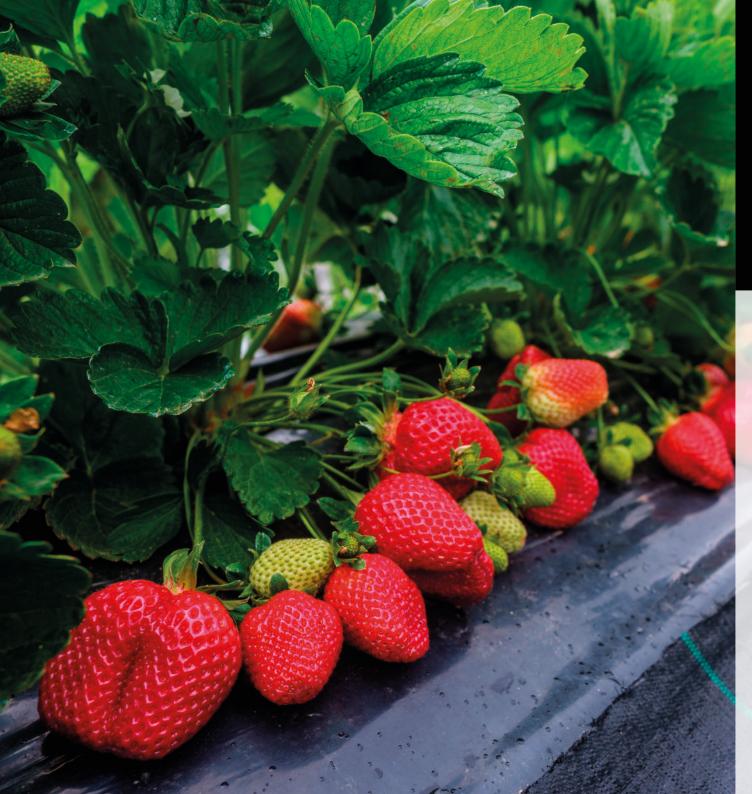
⁽¹⁾ 190°C / 10kg - ⁽²⁾ 190°C / 21.6kg - ⁽³⁾ 230°C / 2.16kg

(*) For a complete regulatory status and specific details, please contact your local Ampacet Sales Representative

^(**)Temporary Specifications

ND: Not Determined





BLACK MASTERBATCH SOLUTIONS



PREMIUM BLACK MASTERBATCHES

Ampacet Premium Black Masterbatches are specially designed and recommended for high-end coextruded film applications where premium quality and outstanding performances are required.

											Applic	atio	ns		
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
ONYX 0900S	190900-S	LDPE	N200	40%	-	min 5 ⁽¹⁾	1.14	630	Yes	x	х	х		x	Very high performance & dispersion quality 40% N200 Black grade with low sulfur content. Suitable for protective film applications.
ONYX AO 0844S	190844-S	LDPE	N200	40%	Antioxidant	11 ⁽¹⁾	1.15	650	Yes	х	х	Х		x	Very high performance & dispersion quality thermostabilized 40% N200 Black grade with low sulfur content. Suitable for protective film applications.
ONYX 0826HP	190826-HP	LLDPE	N200	40%	-	6 (1)	1.15	670	Yes	x	х	Х	Х	x	High performance & dispersion quality 40% N200 Black grade designed for high opacity films.
ONYX 1048A	191048-A	LLDPE	N200	40%	-	30 ⁽¹⁾	1.15	650	Yes	x	х	х	Х	x	High performance & dispersion quality 40% N200 Black grade with high fluidity. Designed for high opacity films.
ONYX AO 0826HT	190826-HT	LLDPE	N200	40%	Antioxidant	7 (1)	1.15	670	Yes	x	х	Х	х	x	High performance & dispersion quality thermostabilized 40% N200 Black grade. Designed for high opacity films sensitive to critical thermic conditions.
ONYX AO 0895	190895	LLDPE	N200	40%	Antioxidant	13 ⁽¹⁾	1.15	650	Yes	x	х	х		x	High performance & dispersion quality thermostabilized 40% N200 Black grade. Designed for food packaging films requiring additional US Food Drug Administration (FDA) approval.

STANDARD BLACK MASTERBATCHES

Ampacet Standard Black Masterbatches are specially designed and recommended for coextruded film applications requiring good quality standards.

											Applica	ation	IS		
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (°)	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
ONYX 9673I	19673-I	LDPE	N700	50%	-	95 ⁽²⁾	1.22	700	No	х	Х		х	х	Standard quality 50% N700 Black grade designed for coextruded films with good opacity.
ONYX 2531	192531	LLDPE	N200	30%	CaCO ₃	min 5 ⁽²⁾	1.41	800	Yes	x	х	х	x	^	Standard quality 30% N200 Black grade offering a cost effective solution for coextruded films, specially designed for food packaging applications.
ONYX 0028	1900028-E	LDPE/ LLDPE	N300	40%	CaCO ₃	min 10 ⁽²⁾	1.31	750	No	х	х		x	х	Standard quality 40% N300 Black grade offering a cost effective solution for coextruded films with high covering strength.
ONYX 9836I	19836-I	LDPE	N700	50%	CaCO ₃	35 ⁽²⁾	1.33	760	No	x	Х		x	x	Standard quality 50% N700 Black grade offering a cost effective solution for coextruded films with good opacity.



COMMODITY BLACK MASTERBATCHES

Ampacet Commodity Black Masterbatches are designed and recommended for low-end film applications requiring general purpose quality standards, offering a cost effective solution.

											Applica	tion	S		
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Dansita	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
ONYX 0120	1900120-E	PE	N300	35%	CaCO ₃	min 1 ⁽²⁾	1.48	840	No	х	Х		х		Economical general purpose quality 35% N300 Black grade offering a cost effective solution for films with high covering strength.
ONYX 3186	193186	PE	N300	18%	CaCO₃	min 2 ⁽¹⁾	1.68	900	Yes	Х	Х	х	Х	Х	Economical general purpose quality 18% N300 Black grade offering a cost effective solution for thick food packaging applications.
ONYX 0515NA	190515-NA	PE	N300	17%	CaCO ₃	min 10 (2)	1.69	910	No	х	х		Х		Economical general purpose quality 17% N300 Black grade offering a cost effective solution for commodity films. Suitable for recycling uses.
ONYX 0155	1900155-E	rPE	N300	17%	CaCO3	min 2 ⁽²⁾	1.70	920	No	Х	Х			Х	General purpose quality 17% N300 Black grade based on recycled Polyethylene carrier resin.
ONYX 9836N	19836-N	PE	N700	50%	CaCO₃	min 2 (2)	1.34	770	No	Х	Х		х	х	Economical general purpose quality 50% N700 Black grade offering a cost effective solution for commodity films.
ONYX 9832N	19832-N	PE	N700	40%	CaCO₃	min 2 ⁽¹⁾	1.37	760	No	Х	Х		Х	Х	Economical general purpose quality 40% N700 Black grade offering a cost effective solution for commodity films.







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OTHER SPECIALTY BLACK MASTERBATCHES

Ampacet Black Masterbatch range also includes other specialty grades which can be used in flexible applications.

										ļ	Applic	atio	ns		
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
ONYX UV 0936	190936	LLDPE	N200	40%	UV Stabilizer Antioxidant	min 2 ⁽¹⁾	1.16	670	Yes				х	Х	Thermostabilized 40% N200 Black grade primarly designed for silage bale wrap film applications.
ONYX AO UV 309	1900309-Е	LLDPE	N200	40%	UV Stabilizer Antioxidant	min 5	1.18	670	Yes				Х	х	Thermostabilized 40% N200 Black grade showing excellent weatherability. Specially designed for geomembrane applications to comply with GRI GM13.
ONYX 1048	191048	LLDPE	N200	40%	-	25 (1)	1.15	660	Yes			x			40% N200 Black grade with excellent organoleptic properties. Designed for coextruded food applications. Suitable for dairy packaging (e.g. milk pouches).
ONYX COP 0132	1900132-Е	PE Copolymer	N700	50%	-	min 2 ⁽²⁾	1.22	690	No	x	x			^	Universal 50% N700 Black grade, compatible with polar resins like PE copolymers (EMA, EBA,), polyamide, polycarbonate, lonomers and ABS.
ONYX COP 9258A	19258-A	PE Copolymer	N700	50%	-	min 2 ⁽²⁾	1.24	690	No	Х	х			х	Universal 50% N700 Black grade, designed for use in EVA-rich films.









											Applic	atio	ns		
Name	Code	Carrier Resin	Pigment Type	Pigment Loading [%]	Additive	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
ELECO 530	192530-A	Proprietary	Proprietary	Proprietary	Conductive	min 5 ⁽²⁾	1.05	590	No	х	x			x ma Oł	ectro conductive black asterbatch with resistivity <10 ⁴ hm/cm, for mono and coextruded m with excellent elasticity.
ELECO 940	190940-A	Proprietary	Proprietary	Proprietary	Conductive	min 2 ⁽²⁾	1.16	650	No	x	x			x ma Oł	ectro conductive black asterbatch with resistivity <10 ³ hm/cm, for conductive yarns sed in big bags.
REC-NIR-BLACK PE 512 EA	1900512-EA	LLDPE	Carbon-black free	Proprietary	_	6 (**)	1.21	700 (**)	Yes	Х	х	x		X so	IR-detectable black coloring olution for indoor flexible olyethylene applications.
BIORANGE+ ONYX BIO	2900007-Е	РВАТ	N200	35%	-	6 ⁽²⁾	1.36	750	Yes	х	x	х	x	CO inc X mu CO TU	ack masterbatch for coloring ompostable end applications cluding organic wastes bags and ulch film. Comply with EN13432 ompostability norm requirements. JV OK Compost INDUSTRIAL ertified.

⁽¹⁾ 190°C / 10kg - ⁽²⁾ 190°C / 21.6kg - ⁽³⁾ 230°C / 2.16kg

(*) For a complete regulatory status and specific details, please contact your local Ampacet Sales Representative

(**) Temporary Specifications



ADDITIVE MASTERBATCH SOLUTIONS



ANTIBLOCK MASTERBATCHES

Antiblock Masterbatches are used to easily separate films which naturally tend to stick to one another when rolled. Through the creation of small asperities on the surface of the film they allow to entrap air during the winding process that helps to avoid blocking problems. Antiblock Masterbatches may also influence the slip as well as the optical properties of the films depending on the type and quantity used.

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Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	100196	LDPE / LLDPE	CaCO ₃	75%	6	1.82	900	Yes	х	Х	Х	х	х	Cost effective antiblock grade for low-end film applications.
-	1000106-Е	LDPE	Silicate	70%	3	1.69	900	Yes	Х	Х	х	х	Х	High loaded general purpose grade, sustainable alternate solution to crystalline natural silica.
-	101830	LDPE / LLDPE	Silicate	50%	8	1.36	700	Yes	х	Х	х	х	Х	General purpose grade, sustainable alternate solution to crystalline natural silica, suitable for typical metallocene LLDPE / LDPE blends.
-	101820	LDPE / LLDPE	Silicate	20%	16	1.06	550	Yes	х	Х	Х	Х	Х	General purpose grade, sustainable alternate solution to crystalline natural silica, suitable for typical metallocene LLDPE / LDPE blends.
-	102667	LDPE / LLDPE	Proprietary	20%	9	1.04	550	Yes	х	Х	х	Х	х	High performance antiblock solution, especially designed for sticky films (e.g. high loading of migrating additives, tacky polymers) providing excellent antiblocking performances at effective cost.
-	102942	LDPE	Proprietary	50%	3.5	1.33	680	Yes	Х	Х	х	х	Х	High loaded solution designed to provide excellent antiblocking properties to sticky metallocene & EVA-rich films, suitable for food packaging, industrial stretch films as well as Stretch Hood applications for an easy opening.

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ANTIBLOCK MASTERBATCHES

											Applie	catio	ns		
N	ame	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
	-	10937-A	LDPE / LLDPE	Synthetic Silica	20%	3	1.04	550	Yes	х	Х	Х		Х	High quality grade providing excellent antiblocking & high clarity film properties.
	-	10987	LDPE / LLPDE	Synthetic Silica	5%	7.5	0.95	500	Yes	х	Х	Х		Х	High quality grade providing excellent antiblocking & high clarity film properties.
	-	101816	LDPE / LLDPE	Organic	5%	5	0.93	500	Yes	х	Х	Х			Very high clarity Antiblock providing outstanding optical properties & very low interaction with migratory additives.
	-	1000089-E	LDPE	Proprietary	10%	2.9	0.99	540	Yes	х	Х	х			Very high clarity Antiblock providing outstanding optical properties to transparent films with excellent antiblocking properties.
НОВ	LOCK 5	400026-A	PP Homopolymer	Synthetic Silica	5%	7 (3)	0.93	490	Yes	х	Х	Х		Х	High antiblocking grade, especially designed for polypropylene films.
SKIBLO	OCK 5 PF	4000264-E	Non-Phthalate Catalyst PP Random Copolymer	Synthetic Silica	5%	7.5 ⁽³⁾	0.92	500	Yes	х	х	х		Х	Phthalate-free high antiblocking grade, especially designed for heat-sealable polypropylene outside layers.









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SLIP MASTERBATCHES

Slip Masterbatches are used to easily slide one film onto another allowing a good machinability during film converting and handling. Conventional slip agents are uncompatible with the polymer matrix and migrate to the film surface forming a greasy layer providing good slip properties (low Coefficient of Friction -CoF) to the films.

										Appl	icati	ons		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	ConsumerGoods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	10358	LDPE	Fast Migrating	5%	11	0.92	550	Yes	Х	Х	х	Х	Х	Short term effect.
-	10073	LDPE	Slow Migrating	2%	8	0.92	570	Yes	Х	Х	Х	Х	Х	Long term effect.
-	10090	LDPE	Slow Migrating	5%	11	0.92	550	Yes	Х	Х	х	Х	Х	Long term effect.
-	10763	LDPE	Slow Migrating	7,5%	13	0.92	550	Yes	Х	Х	Х	Х	Х	Long term effect.
-	101188	LDPE	Proprietary	5%	13	0.92	540	Yes	Х	Х	х		Х	High thermal stability, medium slip properties, suitable for extrusion coating.
SLIP 09	102109-E	LDPE	Proprietary	Proprietary	6(**)	0.92	550 (**)	Yes	Х	Х	Х		Х	Specialty consistent slip solution, designed for high temperature applications.
LAMSLIP 754	1000754-Е	LDPE	Proprietary	Proprietary	14	0.99	560	Yes	x	Х	х		х	Specialty slip solution for predictable and consistent low COF, designed for adhesive lamination, with minimized transfer to the opposite PET side during reel storage and limited influence on slip properties of that opposite side, leading to trouble-free laminating and packing operations.
-	101724	LDPE	Proprietary	15%	12	0.92	570	Yes	Х	Х	Х		Х	Non-migratory solution for permanent medium slip properties.
PERMSLIP 1409	1001409-E	LDPE	Proprietary	Proprietary	5.7(**)	0.98	520(**)	Yes	Х	Х	Х		Х	Non-migratory solution for permanent low slip properties.
-	10780	EVA	Slow Migrating	10%	20	0.93	570	Yes	Х	Х	Х	Х	Х	Long term effect.
HOSLIP 6 PF	40876	Non-Phthalate Catalyst PP Homopolymer	Slow Migrating	6%	19 ⁽³⁾	0.90	550	Yes	x	х	х		х	Long term effect, especially designed for polypropylene films.

SLIP / ANTIBLOCK MASTERBATCHES

Slip / Antiblock Masterbatches combine in one single Masterbatch both antiblocking and slip effects.

										Appl	icatio	ons		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (*)	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	102119	LDPE	Fast Migrating & Silicate	5% / 10%	11	0.98	550	Yes	Х	Х	Х	Х	Х	Short term effect.
-	102121	LDPE	Slow Migrating & Silicate	2% / 10%	7	0.98	540	Yes	Х	Х	Х	Х	Х	Long term effect.
-	102120	LDPE	Slow Migrating & Silicate	5% / 10%	11	0.98	600	Yes	х	Х	Х	Х	Х	Long term effect.
-	102420	LDPE	Slow Migrating & Silicate	5% / 20%	11	1.05	600	Yes	Х	Х	Х	Х	х	Long term effect.
-	1001407-E	LLDPE	Slow Migrating & Silicate	5% / 15%	16(**)	1.52	800(**)	Yes	x	х	Х	х	Х	Cost effective blend of antiblock and slow migrating slip additives.
SKISLAB 1	400144	PP Random Copolymer	Slow Migrating & Synthetic Silica	5% / 5%	6 ⁽³⁾	0.91	540	Yes	х	Х	х		Х	Long term effect, especially designed for polypropylene films.







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ANTISLIP MASTERBATCHES

Antislip Masterbatches provide films with surface roughness avoiding films to slip one onto another.

										Appli	catio	ns		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (*)	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	10820	LDPE	Proprietary	25%	1	0.92	500	Yes	х				High roughness effect, o	High roughness effect, designed for heavy duty bags.
-	10937-A	LDPE LLDPE	Synthetic Silica	20%	3	1.04	550	Yes	х	Х	х	х	х	Low roughness effect, designed for thin films.







ANTIFOG MASTERBATCHES

Antifog Masterbatches are added to films for food packaging or for agricultural applications to avoid water droplet formation / condensation at the film surface. This allows to preserve excellent film transparency avoiding food deterioration in one hand and optimizing plant growth in the other hand.

										Appl	icatio	ons		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
AGROCLEAR 651	102651	PE Copolymer	Proprietary	Proprietary	min 5	0.77	510	Yes				х		High performance Antifog for greenhouse & low tunnels with very long term effect duration. Suitable for multi-seasons use.
AGROCLEAR 752	1000752-E	PE Copolymer	Proprietary	Proprietary	23	0.91	490	Yes				х		High performance Antifog solution for 1 to 2 seasons low tunnels, horticulture films, mulch film for asparagus as well as early harvest crop protection films.
-	1000170-E	LLDPE	Proprietary	Proprietary	40	0.93	520	Yes			х			Highly efficient Antifog for food wrap applications offering increased film clarity and excellent food preservation. Suitable for single web & laminates.
FRESH+ 1032 AF	1001032-E	LLDPE	Proprietary	Proprietary	30(**)	0.99	550(**)	Yes			Х			High performance Antifog for food wrap applications with built-in slip properties avoiding addition of migrating slip additives.
-	102163	LLDPE	Proprietary	Proprietary	32	0.93	650	Yes			Х			Designed for stretch and laminated films requiring US FDA food approval.
-	102196	PP Random Copolymer	Proprietary	Proprietary	24 (3)	0.91	540	Yes			Х			Grade designed for good antifog polypropylene films requiring US FDA food approval
HYDROCLEAR 2	402655-A	PP Homopolymer	Proprietary	Proprietary	15 ⁽³⁾	0.9	540	Yes			х			High performance Antifog at a low concentration for polypropylene cast films requiring US FDA food approval.









VMSVET

ANTISTATIC MASTERBATCHES

Antistatic Masterbatches are added to films to prevent various problems (electrical shock, dust pick-up, static sticking, ...) linked to static charges building on the film surface. Conventional antistatic agents are migrating to the film surface, picking-up moisture molecules from the surrounding atmosphere and creating a thin water molecules layer dissipating electrical charges at the film surface. Permanent antistatic are, on the other side, creating a polymeric conductive network dissipating the electrical charge within the bulk of the polymer matrix.

										Appli	catio	ons		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial PacKaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	10007	LDPE/LLDPE	Non Amine	6%	18	0.93	500	No	х	Х				Non amine, designed for electronic packaging applications.
-	101395-EB	LLDPE	Slow & Fast Migrating	10%	4	0.92	520	Yes	х	Х	х	х	х	Fast & Long term effect.
-	102669	LPDE	Proprietary	Proprietary	10	0.92	500	Yes	х	Х	х	х	х	Non amine, excellent performance at low relative humidity. Suitable for food applications.
-	103440-A	LDPE	Slow Migrating	10%	18	0.91	530	Yes	х	Х	х	х	Х	High loaded long term antistatic.
-	100098-A	LDPE	Slow Migrat- ing	5%	4.5	0.93	550	Yes	х	Х	х	х	Х	Long term effect.
HDSTAT 1481	1001481-E	LDPE	Proprietary	Proprietary	11(**)	0.92	500(**)	Yes	х	Х	х	х	Х	Highly efficient amine-free antistatic designed for EVA-rich and HDPE films, effective at low relative humidity. Suitable for stretch hood application.

ANTISTATIC MASTERBATCHES

										Appl	icati	ons		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (*)	Industrial PacKaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
PERMSTAT 429	103429	PE Copolymer	Proprietary	Proprietary	7.5	0.96	500	Yes	х	Х	х		Х	Non-migratory antistatic with immediate and consistent antistatic effect & excellent sealability.
PERMSTAT 858A	1000858-EA	PE Copolymer	Proprietary	Proprietary	10(**)	0.96	512(**)	Yes	х	х	х		Х	Non-migratory Antistatic with immediate and consistent antistatic effect & outstanding sealability.
PERMSTAT 249	1000249-E	PE Copolymer	Proprietary	Proprietary	17	0.94	530	Yes	x	Х	x		Х	Non-migratory antistatic with immediate and consistent antistatic effect independent of atmospheric conditions.
PERMSTAT 346	1000346-E	PE Copolymer	Proprietary	Proprietary	11 (**)	0.96	500 (**)	Yes	x	х	x		Х	Non-migratory antistatic with immediate and consistent antistatic effect independent of atmospheric conditions, with improved sealability when better seal strength is required.
PERMSTAT 90	404190-Е	LLDPE	Proprietary	Proprietary	5 (**)	0.95	500 (**)	Yes	x	Х	х		Х	Non-migratory antistatic with immediate and consistent antistatic effect, suitable for the casting process.
ANSTAT	400565	PP Homopolymer	Slow & Fast Migrating	12%	8 (3)	0.90	535	Yes	х	Х	x		Х	Fast & Long term effect, designed for polypropylene films
HOSTAT 87	400687	PP Homopolymer	Slow Migrating	10%	6 ⁽³⁾	0.90	560	Yes	x	Х	x		х	Long term effect, designed for polypropylene films.

ANTISTATIC / ANTIBLOCK MASTERBATCHES

Antistatic / Antiblock Masterbatches combine in one single masterbatch both antistatic and antiblocking effects.

										Appl	icatic	ons		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	10053-A	LDPE	Slow Migrating & Silicate	5% / 10%	11	0.98	520	Yes	х	Х	Х	Х	Х	Long term effect.
-	102029-A	LDPE	Slow Migrating & Silicate	10% / 20%	22	1.05	560	Yes	х	Х	Х	Х	Х	Long term effect.
-	102421	LDPE	Fast Migrating & Silicate	10% / 10%	17	0.98	520	Yes	х	Х	Х	Х	Х	Short term effect.
-	1000532-Е	LDPE	Slow/Fast Migrating Blend & Silicate	10% / 15%	21 (**)	1.03	550 (**)	Yes	Х	Х	Х	Х	Х	Short & long term effect.
-	103453	LDPE	Proprietary Antistat- ic & Antiblock	5% / 10%	11	0.98	560	Yes	x	х	х	х	х	Non amine with excellent performance at low relative humidity. Suitable for food applications as well as electronic packaging applications.







MPACET

ANTIOXIDANT MASTERBATCHES

Antioxidant Masterbatches are used to avoid polymer degradation by oxidation during film processing and / or by thermal degradation during film ageing.

										Appli	catior	าร		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	10886	LDPE	Primary & Secondary	5%	10	0.93	470	Yes	Х	х	Х	Х	Х	General purpose grade.
-	100691	LDPE	Primary & Secondary	10%	14	0.93	520	Yes	Х	Х	Х	х	Х	Grade designed for process stabilization.
ThermProtect PE 900	100900-Е	LLDPE	Proprietary	Proprietary	3	0.92	470	Yes	х	х	Х	х	х	High performance process stabilizer offering great stability against gel formation, allowing a higher use of reprocessed materials.
-	103456	LDPE	Proprietary	5%	11	0.92	480	Yes	х	х	х	Х	Х	Specialty antioxidant preventing coloration phenomenon known as 'yellowing' or 'pinking', especially on roll edges.
-	100701	PP Homopolymer	Primary & Secondary	10%	17 ⁽³⁾	0.91	480	Yes	х	х	х	х	х	Grade designed for process stabilization of polypropylene films.







PROCESSING AID MASTERBATCHES

Processing Aid Masterbatches are added to films to improve film quality (reduce melt fracture) and optimize extrusion operability (limit die build-up formation, reduce pressure & torque, decrease energy consumption and increase line output). Ampacet PFAS-free processing aid Masterbatches anticipate the future restrictions expected on PFAS substances at European level.

										Applic	ation			
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
PROFLOW 1485	1001485-E	LLDPE	PFAS-free & Siloxane-free	Proprietary	ND	0.94	750	Yes	х	Х	х	х	х	Global Food compliant PFAS-free & Siloxane-free processing aid for polyolefin films.
PROFLOW 545	4000545-E	PP Random Copolymer	PFAS-free & Siloxane-free	Proprietary	ND	0.96	750	Yes	х	Х	x		х	Global Food compliant PFAS-free & Siloxane-free processing aid designed for polypropylene films.







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UV STABILIZER MASTERBATCHES

UV Stabilizer Masterbatches are used to protect the films from degradation when exposed to sunlight as well as from long term thermal degradation during prolonged end-uses.

										Appli	icati	ons		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status (*)	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	10478-A	LDPE/ LLDPE	HALS	10%	12	0.94	550	Yes	х	Х		х	х	General purpose grade.
-	1000520-Е	LDPE/ LLDPE	HALS	20%	23	0.97	520	Yes	x	х		Х	Х	High loaded general purpose grade.
-	1000083-E	LDPE/ LLDPE	HALS Blend & Filler	20% (HALS)	40	1.49	790	Yes	x	х		Х	х	Cost effective grade for thick films.
-	10407-Е	LDPE	HALS	10%	13	0.93	490	Yes	x	х		Х	х	Higher performance (not designed for agro-chemical use).
-	10561	LDPE	HALS	20%	19	0.93	500	Yes	x	х		Х	х	High loaded, higher performance (not designed for agro-chemical use).
-	100382	LDPE/ LLDPE	HALS Blend	10%	24	0.94	500	Yes	x	х		Х	Х	General purpose grade with thermostabilization.
-	101727	LDPE/ LLDPE	HALS Blend & Filler	10% (HALS)	min 5	1.27	690	Yes	x	х		х	х	Cost effective grade for thick films.
AGRISTAB 1234	1001234-Е	LLDPE	HALS	20%	ND**	0.95	ND**	No				Х		UV Stabilizer for greenhouses used under low pesticide exposure (up to 500 ppm Sulfur)
AGRISTAB 1249A	1001249-EA	LDPE	HALS	Proprietary	ND**	0.78	ND**	No				Х		UV stabiler for multi-seasons greenhouses used in highly intensive pesticides environments (up to 5,000 ppm Sulfur)
AGRISTAB 1250A	1001250-EA	LDPE	HALS & UV Absorber	Proprietary	ND**	0.78	ND**	No				х		UV Stabilizer & Barrier blend without SVHC substances, designed for multi-season greenhouses used in highly intensive pesticides environments (up to 5,000 ppm Sulfur)
-	40559-A	PP Homo	HALS	20%	44	0.92	500	Yes	Х	Х		Х		General purpose stabilizer for PP cast applications
-	401311	PP Homo	HALS Blend	20%	32	0.92	510	No	Х	Х		Х	Х	General purpose stabilizer for PP cast applications

UV BARRIER MASTERBATCHES

UV Barrier Masterbatches are added to films to provide barrier properties to Ultra-Violet light protecting light-sensitive packed goods from degradation.

									A	pplic	ation	S	
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Infrastructure	Benefits
-	100574	LDPE/LLDPE	Mineral	60%	7	1.86	950	Yes	х	Х		x	High efficiency for thin and thick films with contact transparency only.
-	10057	LDPE	Organic	10%	16	0.94	550	Yes	Х	Х	>	x	Designed for thick transparent films with barrier effect up to 340 nm.
-	101922	LDPE	Organic	10%	7(**)	0.95	500(**)	Yes			X	x	Designed for greenhouses with good resistance to extraction.
UVBLOCK 1496	1001496-E	LDPE	Organic Blend (Formulated without SVHC)	Proprietary	7(**)	1	530(**)	Yes	х	Х	хх	[UV Barrier solution formulated without SVHC substances designed for food and industrial packaging applications.
UVBLOCK 1496 PP	4001496-Е	PP Homopolymer	Organic Blend (Formulated without SVHC)	Proprietary	ND**	0.98	ND**	Yes	х	Х	хх		UV Barrier solution formulated without SVHC substances designed for food and industrial PP packaging applications.

'TEMPERATURE CONTROL' MASTERBATCHES

'Temperature Control' Masterbatches are used to 'control' the temperature of the inner atmosphere of films.

										Appli	icatio	ns		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
THERMIC 337	1000337-Е	LDPE	Infra-Red Barrier	70%	3	1.69	860	Yes				х		Thermic effect to retain maximum heat inside greenhouses and low tunnels during the night to ensure optimal plant growth.
HEATSCREEN 34	1000234-Е	LDPE	"Cooling"	Proprietary	19	1.09	580	Yes	х			x		Cooling effect to avoid overheating of greenhouse inner atmosphere and dehydration of plants under extreme climatic conditions for an optimized plant growth. Also suitable for pallet covering.

GAS BARRIER MASTERBATCHES

Gas Barrier Masterbatches are added to films to provide gas barrier properties (Oxygen, Water-vapor...) & enhance protection of packed goods, extending shelf-life.

										ļ	Applica	ntio	ns		
	Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
GA	STOP-FLEX 1131A	1001131-EA	HDPE	Proprietary	Proprietary	80	1.03	700	Yes	х	Х	х			Allow to reduce OTR and WVTR up to 60%. Designed for general purpose packaging as well
GA	ASTOP-FLEX 1293	1001293-Е	LDPE	Proprietary	Proprietary	ND	1.01	560	Yes	Х	Х	Х	Х		Designed for general purpose packaging as well as high barrier packaging allowing a reduction of EVOH content in compliance with most popular
GA	STOP-FLEX 0411A	4000411-EA	PP Homo	Proprietary	Proprietary	45(**)(3)	0.94	600(**)	Yes	Х	Х	Х			design guidelines for circular economy (e.g. EVOH < 5%).







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MATTE COMPOUNDS

Matte Compounds are used in the outside layer of coextruded films to provide homogeneous high haze / low gloss surface finish to packaging films enhancing aesthetic and haptics .

	Applications														
	Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
ſ	/ATIF 97 LX	400700-EA	Proprietary	Matte	Proprietary	3.1 ⁽³⁾	0.92	500	Yes	х	х	х		х	Matte compound designed for use at 100% in the outside layer of coextruded films, enhancing aesthetic & haptics of flexible applications for luxury & old fashioned appearance.
	MATIF 115	4000481-E	Proprietary	Matte	Proprietary	3 (3)	0.92	500	Yes	х	Х	х		Х	Sealable matte compound with SIT of 115°C, designed for use at 100% in outside layer of coextruded films used in packaging application. Suitable for MDO film process.
	MATIF 105	4000144-E	Proprietary	Matte	Proprietary	3 (3)	0.92	500	Yes	x	Х	х		х	Sealable matte compound with SIT of 105°C, designed for use at 100% in outside layer of coextruded films used in packaging application. Suitable for MDO film process.

FOAMING MASTERBATCHES

Foaming Masterbatches are used to reduce film density.

										Applications				
lame	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	1000423-Е	LDPE	Foaming	Proprietary	ND	2.20	600	Yes	Х	Х	х		Х	Grade designed for reducing film density providing small foamed cells.

FLAME RETARDANT MASTERBATCHES

Flame retardant Masterbatches are used in films requiring flame retardancy properties by limiting factors favouring the polymer combustion.

					Applic	atio	ons							
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	101185	LDPE LLDPE	Halogenated	78%	5	2.13	1100	No	Х				Х	Very efficient grade with low sealing impact.
HALOFREE 709	1000709-E	PE	Halogen-free	Proprietary	ND	1.13	560(**)	No	Х				Х	Halogen-free flame retradant, efficient at low addition rate, preserve high film clarity. Allows to achieve B1 and B2 (DIN4102) as well as VTM0 (UL-94).
HALOFREE 229	4000229-E	Proprietary	Halogen-free	Proprietary	26(**)(3)	1.02	500(**)	No	х				Х	Halogen-free flame retradant, efficient at low addition rate, preserve high film clarity. Allow to achieve M1 (NFP 92-503).
-	102684	PE	Metal hydrate	60%	9	1.47	750	No	Х					High heat resistant flame retardant, suitable for extrusion coating.

ODOR SCAVENGER MASTERBATCHES

Odor scavenger Masterbatches are used in films to absorb odorous molecules and keep them inside the film polymer matrix.

	Applications													
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Doncity	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
OdorClear 0258	1000258-E	LLDPE	Odor Scavenger	Proprietary	8	1.19	600	Yes	x	Х	x	х	Х	An innovative Odor Absorbing Solution allowing a higher use of post-consumer recycled material keeping smell at acceptbale level.
OdorClear 1222	1001222-Е	LLDPE	Odor Scavenger	Proprietary	3(**)	1.17	600(**)	No	x	Х		Х	Х	Economical innovative Odor Absorbing Solution allowing a higher use of post-consumer recycled material keeping smell at acceptbale level.

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DESICCANT MASTERBATCHES

Desiccant Masterbatches are added to film formulations to capture excessive moisture brought by some raw materials and to avoid problems linked to water evaporation during the extrusion process.

										Applications				
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	ConsumerGoods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	103450-A	LDPE	Desiccant	70%	6.2	1.98	990	No	х	х		х	х	Grade designed to fix moisture issues during extrusion.
-	101400-В	LDPE	Desiccant	50%	4.5	1.43	740	Yes	Х	Х	Х	х	х	Grade designed to fix moisture issues during extrusion.
-	1001490-Е	LDPE	Desiccant	40%	3.0(**)	1.94	950 ^(**)	No	Х	Х		Х	Х	Economical desiccant solution.

PURGE MASTERBATCHES

Purge Masterbatches are used to accelerate the cleaning process of the extruder and shorten the transition time between film production runs.

										Appl	icatio	ons		
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
PROCLEAN 350 B	100350-B	LDPE	Purge	Proprietary	3.7	1.01	ND	Yes						Improves and reduces time for line cleaning, especially designed for blown film.
PROCLEAN 350 C	100350-EC	LDPE	Purge	Proprietary	5 (**)	1.01	ND	Yes						Thermostabilized masterbatch for purge and clean-down of extrusion lines.
PROCLEAN	400882-B	PP Homopolymer	Purge	Proprietary	5 (3)	0.91	ND	No						Especially designed for PP films.

OTHER MASTERBATCHES

	Applications													
Name	Code	Carrier Resin	Additive Type	Additive Loading [%]	MFI 190°C / 2.16 kg [g/10 min]	Specific gravity	Bulk Density [g/l]	EC Food Status	Industrial Packaging	Consumer Goods Packaging	Food Packaging	Agriculture	Infrastructure	Benefits
-	10846	LDPE	Optical Brightner	Proprietary	4	0.93	550	Yes	х	Х			х	Grade used to improve film whiteness.
-	100139-C	LDPE LLDPE	Antisticking	25%	ND	0.97	530	Yes	х	Х	Х			Antisticking grade primarily designed for shrink wrapping film applications.
-	103932	LDPE	Chill Roll Release	Proprietary	7.5	0.92	520	Yes	х	х	Х			Prevents film from sticking on rolls during extrusion coating & cast process.
LaserMarkFlex 1081	1001081-Е	LLDPE	Laser Marking	Proprietary	14 (**)	0.94	500 (**)	Yes	х	х	Х	Х	Х	Laser marking on flexibles for black/dark grey marking.
LaserMarkFlex 1135	1001135-Е	LLDPE	Laser Marking	Proprietary	12 (**)	0.94	700 (**)	Yes	х	х	x	х	Х	Laser marking on flexibles for lighter grey marking with broader food approval status (EC + FDA).
GERMSCLEAN 684	1000684-Е	PE Copolymer	Anti- microbial	Proprietary	5	1.06	530	Yes	x	x	x		Х	Inorganic antimicrobial additive technology that ensures long-lasting effective protection of plastics against proliferation of a wide variety of harmful microorganisms (bacteria and fungi), keeping plastic surfaces clean, hygienic and germs-free.
-	4000061-E	PP Homopolymer	Clarifier	Proprietary	8	1.00	490	Yes	х	Х	х		Х	Designed for polypropylene films.
REVIVE 311 E	1000311-Е	Proprietary	Compatibilizer	Proprietary	33	0.94	500	Yes	х	х	Х	х	Х	General purpose compatibilizer for polyamide and EVOH into polyolefins.
REVIVE 962 E	1000962-Е	Proprietary	Compatibilizer	Proprietary	2(**)	1.01	520 (**)	Yes	х	Х	Х	х	Х	Compatibilize EVOH in polyolfines preserving high optics.
REVIVE 324 E	4000324-E	Proprietary	Compatibilizer	Proprietary	7 (3)(**)	0.87	500 (**)	Yes	Х	Х	Х	Х	Х	Compatibilize polypropylene into polyethylene.

⁽¹⁾ 190°C/10Kg - ⁽²⁾ 190°C/21.6Kg - ⁽³⁾ 230°C / 2.16Kg

(*) For a complete regulatory status and specific details, please contact your local Ampacet Sales Representative

(**) Temporary specifications

ND: Not determined

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