MLPlastics Additive Masterbatches

MLPlastics offers a range of high concentrated Additive Masterbatches. The MLPlastics Additive Masterbatches are up-to-date formulations which efficient additive usage, provides plastics processors highest functionality at lowest cost.

Products Overview

ANTI-BLOCK MASTERBATCHES.
Anti-block masterbatches prevent blocking of polyolefin films during production and conversion into finished products.

PE AN2525H is a PE based anti-block masterbatch containing ca. 50 % natural silica. The type of silica gives good anti-block results without negatively affecting the film transparency. The high concentration offers economic advantages for those applications requiring a high anti-blocking performance, thus resulting in a reduced dosage of the masterbatch.

PE AN2180 is a PE based anti-block masterbatch containing ca. 20 % of a specialty high clarity anti-block additive. PE AN2180 is specially developed for high transparency film applications and delivers superior optical properties and excellent blocking performance. The high clarity is achieved by utilizing an anti-block additive having the same refractive index as polyolefin’s. In addition, the low oil absorption of this anti-block additive results in a very low tendency of interaction with migrating additives.

PE AN5252 is a PE based anti-block masterbatch containing ca. 50 % of a specialty high clarity anti-block additive. PE AN5252 is specially developed for high transparency film applications and delivers superior optical properties and excellent blocking performance. The high clarity is achieved by utilizing an anti-block additive having the same refractive index as polyolefin’s. In addition, the low oil absorption of this anti-block additive results in a very low tendency of interaction with migrating additives. The high concentration offers economic advantages for those applications requiring a high anti-blocking performance, thus resulting in a reduced dosage of the masterbatch.

PE AN5252 performs in agricultural LDPE, LLDPE and PP heat preserving films as an infrared (IR) absorber and acts as a thermal barrier (thermal film) to retain captured light energy.
**SLIP MASTERBATCHES.**
Slip masterbatches reduce the CoF (Coefficient of Friction) between the film layers and also between the film and other surfaces which are in contact with the film.

PE SO4005 is a PE based slip masterbatch containing 5% high purity oleamide of **vegetable origin**. Oleamide is a fast migrating slip agent, thus migration starts immediately after film-production and reaches full performance in a matter of hours. The fast migrating oleamide may sometimes create winding, sealing and/or printing problems. In this case the use of PE SE5005 (containing erucamide) is recommended. PE SO4005 is also recommended as a mould release agent for polyolefin injection moulding applications.

PE SE5005 is a PE based slip masterbatch containing 5% high purity erucamide of **vegetable origin**. In general oleamide migrates quicker to the polymer surface than erucamide. But PE SE5005 – containing an erucamide – gives better CoF-values in the long term when compared to oleamide and is more heat stable. PE SE5005 is also recommended as a mould release agent for polyolefin injection moulding applications.

**SLIP / ANTI-BLOCK MASTERBATCHES**
These masterbatches contain a blend of a slip- and an anti-block-agent. The masterbatches can be used in the manufacturing of polyolefin films where the end product needs slip and anti-block properties.

PE SOA2545 is a PE based slip / anti-block masterbatch containing a blend of a high purity oleamide of **vegetable origin** (fast migration slip agent) and a fine natural silica (anti-block additive).

PE SEA2555 is a PE based slip / anti-block masterbatch containing a blend of a high purity erucamide of **vegetable origin** (slow migration slip agent) and a fine natural silica (anti-block additive).

PE SOA5245 is a PE based slip / anti-block masterbatch containing a blend of a high purity oleamide of **vegetable origin** (fast migration slip agent) and a **specialty high clarity anti-block additive**. The high clarity is achieved by utilizing an anti-block additive having the same refractive index as polyolefin’s. In addition, the low oil absorption of this anti-block additive results in a very low tendency of interaction with migrating additives.
PE SOA5245 is a PE based slip / anti-block masterbatch containing a blend of a high purity erucamide of vegetable origin (slow migration slip agent) and a specialty high clarity anti-block additive. The high clarity is achieved by utilizing an anti-block additive having the same refractive index as polyolefin’s. In addition, the low oil absorption of this anti-block additive results in a very low tendency of interaction with migrating additives.

ANTISTATIC MASTERBATCHES.
An antistatic agent incorporated into the polymer matrix, migrates to the surface of the polymer – because of its incompatibility with the polymer – where it builds up a uniform layer. The hydrophilic chain-end of the antistatic molecule sticks out of the polymer and the lipophilic end anchors in the polymer. The hydrophilic chain-end attracts the water or the moisture of the environment. The moisture trapped by the hydrophilic end of molecules forms a thin conductive film at the surface of the plastic if the atmospheric moisture is sufficient. If the moisture level is too low, the antistatic becomes inefficient.

Short-term antistatic agent; the antistatic agent migrates very fast to the surface of the plastic articles and gives almost instantaneous antistatic performance. Long-term antistatic agent; the antistatic agent migrates slowly to the surface at a controlled rate to maintain long-lasting conductivity.

PE LTA1205 is a PE based antistatic masterbatch containing a high purity long-term antistatic agent of vegetable origin.

PE STA1905 is a PE based antistatic masterbatch containing a high purity short-term antistatic agent of vegetable origin.

PE SLA3136 is a PE based antistatic masterbatch containing a blend of a high purity short-term and a high purity long-term antistatic agent both of vegetable origin. This combination is extremely effective as an antistatic agent, giving excellent antistatic performance due to a synergistic effect between the two antistatic agents.

PE PEA6005 is a PE based permanent antistatic masterbatch containing a polymer that gives true IDP (Inherent Dissipative Polymer) permanent static dissipation performance to polyolefin’s. PE PEA6005 forms a conductive polymer matrix in the host polymer. With proper processing procedures, users can obtain products with permanent moisture independent static dissipation levels of 10E9 to 10E12 Ohms/sq surface resistivity.
PROCESSING AID MASTERBATCH.

PE EPH500 is a PE based process aid masterbatch containing 5 % active ingredient which improves the processing of polyolefin’s. The fluoropolymer in the masterbatch forms a thin coating on the metal surfaces of the equipment used to process the polymers. The coating acts as a lubricant and reduces the friction between the metal and the polymer. This results in reduced or eliminated melt fracture (sharkskin), reduced die build-up, reduced power consumption, increased throughput, etc..

MOISTURE-ABSORBER / DESICCANT MASTERBATCH.

PE ML1803 is a PE based highly loaded moisture absorber, developed for the absorption of moisture when extruded with recycling materials as well as for applications which are sensitive to moisture. The active substance in ML1803 will absorb the moisture and binds this chemically; this chemical process is irreversible at temperatures normally applied in plastics processing. PE ML1803 can be used during extrusion/moulding of all kinds of plastics.

PE ML1820 is a PE based highly loaded moisture absorber, specially developed for use in thin applications (e.g. films < 50 µ) or for injection moulding applications were smooth surfaces are required.

PP ML1890 is a PP based highly loaded moisture absorber, specially developed for PP-applications were high addition rates are required.

CHAIN EXTENDER MASTERBATCH.

Chain extenders increase the molecular weight of polymers by re-coupling their degraded chains while their processing, re-processing or recycling is taken place.

PE CE7777 is a PE based chain extender masterbatch. The active substance in the masterbatch is a multi-functional reactive polymer designed to reverse the degradation of PET, PC, PA and other condensation polymers. PE CE7777 can be used during processing in order to increase the melt strength of PET, PA and PC. This is useful in extrusion, thermoforming and injection moulding applications.
CLEANING COMPOUND.

Cleancom PE1147 is a PE based cleaning compound which is specially developed to clean polyolefin and PVC processing-equipment. Cleancom PE1147 contains surface active agents and a relatively low amount of mineral fillers that clean the extruder chemically and mechanically. Typical application fields are film, sheet, pipe and cable extrusion, compounding, injection moulding as well as blow moulding.

SYNTHETIC PAPER COMPOUND.

The synthetic paper compound is specially developed to impart paper-like properties to HDPE-film.

Papercom HDPE4502 is a HDPE based compound containing a high quality mineral filler (D 50% = ca. 2 µ). Papercom compound can be used in blown or cast film applications.

Papercom HDPE4505 is a HDPE based compound containing a high quality mineral filler (D 50% = ca. 5 µ). Papercom compound can be used in blown or cast film applications.

PEELABLE SEAL COMPOUNDS.

Sealcom PE1510 is a HDPE based talc filled compound. Sealcom PE1510 will give a peel effect when opening a heat-sealed product, due to the content of talc.

Sealcom PP1550 is a sealing compound based on a polyolefin-blend, which is used as a peelable sealing layer of co-extruded PP-films. Films are sealed against themselves or against PP.