

KRITILEN®

Masterbatches for BOPP Film

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Technical information

PLASTIKA KRITIS offers a complete product line of masterbatches used in the production of BOPP films. They contain additives, combinations of additives or pigments of proven value, at concentration levels that suit each formulation, properties and final product or process requirements, perfectly dispersed in an appropriate carrier resin.

Selection Guide

The basic product range consists of the following masterbatches:

a) KRITILEN® SL/AT PP1003, KRITILEN® SL/AT PP1004

KRITILEN® SL/AT PP1003 is a combined slip and antistatic masterbatch, based on a PP homopolymer BOPP grade, designed to be used in the core layer of BOPP films, in order to achieve excellent slip and antistatic properties in moderate climate conditions. It is proposed for use at 2% - 3% in the middle film layer. It contains a selected grade of refined erucamide slip agent, glycerol ester and amine antistatic.

KRITILEN® SL/AT PP1004 is a more concentrated version offering slip and antistatic properties for BOPP films used in cold climates.

b) KRITILEN® SL PP968

It is a slip masterbatch, proposed for use at 2%-3% in BOPP film middle layer. It contains a selected grade of refined erucamide slip agent and is based on a BOPP compatible PP homopolymer carrier.

c) KRITILEN® PP AT912

It is an antistatic masterbatch proposed for use at 2%-3% in BOPP film middle layer. It contains a selected grade of amine antistatic agent and is based in a BOPP compatible PP homopolymer carrier.

Note: For optimum efficiency, the addition rates of KRITILEN® SL/AT PP 1003, SL PP968 and AT PP912 should be adapted to the climatic conditions and desired final properties.

d) KRITILEN® AB PP9575

It is an antiblocking masterbatch, proposed for use at 2%-3% in BOPP film skin layers. It is based in PP homopolymer carrier (suitable for use in BOPP applications) and contains a selected grade of low particle size synthetic silica (D50 = 3.5µm). The addition of KRITILEN® AB PP9575 prevents blocking during wind-up, regulates the slip and anti-static properties of films and allows a smooth unwinding and slitting of the reels.

e) KRITILEN® WHITE PP953, PP961 AND PPF979

All of them are milky white masterbatches based in a PP homopolymer carrier. The TiO₂ excellent dispersion into the polypropylene carrier makes them an optimum choice for BOPP films. They contain 50%, 60% and 70% of TiO₂, respectively. They are proposed for use at 10% - 15% in the middle film layer.

f) KRITILEN® PEARL PP972 AND PP9721

They contain specially selected minerals in PP homopolymer carrier, which impart a pearlescent effect in the BOPP film. They ensure excellent dispersion without affecting the mechanical properties of the end product. They are proposed for use at 10%-15% in middle layer.

Plastika Kritis also offers special BOPP masterbatches based in PP-copo carriers, proposed for use in heat sealed or metalized films. Upon customer demand, Plastika Kritis can develop tailor-made solutions for BOPP film manufacturers. Such solutions involve the use of certain additives or combination of additives, which can be dispersed in adequate polymeric carriers, specified by customer.

Food Approval Status

All above masterbatches contain raw materials, which, according to their suppliers, are approved for contact with food.

KRITILEN® Masterbatches for BOPP Films / Product range

KRITILEN®	Carrier	Additives / pigment content (%)	Additives / pigment type	Addition rate (%)	Food approval
SL / AT PP1003	PP-h (BOPP grade)	15	Combination of erucamide slip, glycerol ester and amine antistatic	2%-3% in middle film layer	Yes
SL / AT PP1004	PP-h (BOPP grade)	20	Combination of erucamide slip, glycerol ester and amine antistatic	2%-3% in middle film layer	Yes
SL PP968	PP-h (BOPP grade)	5	Erucamide slip	2%-3% in middle film layer	Yes
PP AT912	PP-h (BOPP grade)	4	Amine antistatic	2%-3% in middle film layer	Yes
AB PP9575	PP-h (BOPP grade)	5	Synthetic silica	2%-3% in film skin layer	Yes
White PP953	PP-h (BOPP grade)	50	TiO ₂ (rutile)	10%-15% in middle film layer	Yes
White PP961	PP-h (BOPP grade)	60	TiO ₂ (rutile)	10%-15% in middle film layer	Yes
White PPF979	PP-h	70	TiO ₂ (rutile)	10%-15% in middle film layer	Yes
Pearl PP972	PP-h	70	Special mineral	10%-15% in middle film layer	Yes
Pearl PP9721	PP-h	70	Special mineral	10%-15% in middle film layer	Yes

LIMIT OF LIABILITY

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The information and suggestions contained herein are the result of our experience, knowledge and research. They are believed to be reliable and are given in good faith. However no guarantee is provided, as the conditions under which our products are used are beyond our control.