

KRITILEN®

Masterbatches for Pet Straps

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Technical information

KRITILEN® masterbatches for PET straps are concentrates of colorants and/or additives in a polymer carrier. They offer a convenient way of incorporating colorants or specialty additives in straps, without contamination by dust and with good dispersion which is essential for maximum coloring strength and performance.

KRITILEN® Masterbatches for Pet Straps

KRITILEN®	Color	Function	Food approval	Addition rate
PP51585	Green	Green coloration and anti-split properties	Yes*	1%
PP50948	Green	Green coloration, weld enhancing,	No	1%
				slip and anti-split properties
PP51883	Green	Green coloration, weld enhancing,	Yes*	1%
				slip and anti-split properties
PT51510	Green	Green coloration	Yes*	1%
PPA932P	Black	Black coloration, anti-split and UV stabilization properties	Yes	1%-3% (for coloration and anti-split), 8% (for UV stabilization)
PP940	Black	Black coloration, anti-split and moderate UV stabilization properties	No	1% - 3% (for coloration and anti-split)
PT6302	Black	Black coloration, for transparent black PET straps	Yes	1% - 3% (for coloration and anti-split), 8% (for UV stabilization)
CE9125	Natural	Chain extender	No	1.5% - 6.5%
WE PP9120	Natural	Anti-split and weld enhancing properties	Yes*	1%

* BfR

Products

The basic product line consists of the following color masterbatches:

- a) **KRITILEN® GREEN PP51585**: It is a green masterbatch based on a special PP carrier, providing anti-split properties to the end product.
- b) **KRITILEN® GREEN PP50948** and **PP51883**: Both of them are green masterbatches based on a special PP carrier, providing anti-split, weld enhancing and slip properties to the end product.
- c) **KRITILEN® GREEN PT51510**: It is a transparent green masterbatch based on a PET carrier.

Additionally, the basic product line includes the following black masterbatches:

- d) **KRITILEN® BLACK PPA932P**: It is a black masterbatch containing 30% P type carbon black on a special PP carrier. It also contains a selected package of antioxidants in its recipe, which protect the end application polymer from thermal degradation during processing and end use. **BLACK PPA932P** offers anti-split properties to the end product. Due to its low particle size carbon black, it imparts better UV resistance to strap.
- e) **KRITILEN® BLACK PP940**: It is a black masterbatch containing 40% SRF carbon black on a special PP carrier. It is a cost efficient black masterbatch providing anti-split properties to the end product. It contains a higher particle size carbon black in comparison to **PPA932P**, imparting lower UV resistance to strap. It is not food approved.
- f) **KRITILEN® BLACK PT6302**: It is a black masterbatch containing 30% P-type carbon black on a PET carrier suitable for transparent black PET straps.

The production of PET straps requires the use of specialty additive masterbatches, which enable the end processor to optimize the production process and also improve the end product properties and functionality. For this purpose, **PLASTIKA KRITIS S.A.** have developed the following additive masterbatches:

- g) **KRITILEN® CE9125**: It contains 15% of a versatile chain extender/compatibiliser with a medium to high epoxy functionality based on a special PP carrier. This allows for rapid reaction with condensation thermoplastics (e.g. PET), resulting in higher molecular weight and by that, low quality recycled PET can be upgraded or that good quality one can be treated more robustly. The proposed **KRITILEN® CE9125** addition rate is 1.5%-6.5%, depending on the recycled resin quality and proportion in the blend. **KRITILEN® CE9125** should not be used at processing temperatures exceeding 320deg. Celsius.
- h) **KRITILEN® WE PP9120**: It is a colorless additive masterbatch providing anti-split, weld enhancing and slip properties to the end product. It contains 15% of active ingredients and can be used in combination with a color masterbatch. Its indicative addition rate is 1%.

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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 warranty is provided, as the conditions under which our products are used are beyond our control.