

KRITILEN®

Black Masterbatches for Fibers

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Technical information

KRITILEN® BLACK masterbatches for PP or PET fibers are concentrates of carbon-black in a polymer carrier. They offer a convenient way of incorporating carbon-black in textile products, providing black color and improved outdoor resistance. They offer excellent dispersion which is essential for maximum coloring strength and good UV-stabilization.

KRITILEN® Masterbatches for Fibers / product range

KRITILEN® BLACK	Carrier	Carbon black type	Undertone	Food Contact	Carbon black content (%)	Antioxidants	Applications		
							BCF	CF	Spun bonded
4401P	LLDPE	P	Brownish	Up to 6%	40	No	•	•	o
4410P	LLDPE	P	Brownish	Up to 6%	40	No	•	•	o
PPFA934P	PP-h	P	Brownish	Up to 8%	30	Yes	•	•	o
PPF9421P	PP-h	P	Brownish	Up to 6%	40	No	•	•	o
PPF9440P	PP-h	P	Brownish	Up to 6%	40	No	•	•	•
4443	LLDPE	High jetness	Bluish	Up to 6%	40	No	•	•	o
PT6301	PBT	High jetness	Bluish	Up to 8%	30	No	•	•	
PT6302	PET/PBT	P	Brownish	Up to 8%	30	No	•	•	

• : recommended o : can be used

Products and Applications

The basic product line consists of the following masterbatches:

a) KRITILEN® BLACK 4401P and 4410P

BLACK 4401P contains 40% of a specially selected P type carbon black, having an excellent dispersion in a LLDPE carrier. Its optimized rheological properties make it ideal for long trouble-free production runs in BCF and CF applications.

BLACK 4410P also contains 40% of an alternative premium P type carbon black in LLDPE carrier. It offers the same properties to the yarn, as BLACK 4401P, however the different type of pigment in its recipe imparts a slightly different shade in the end product.

b) KRITILEN® BLACK PPFA934P, BLACK PPF9421P and BLACK PPF9440P

BLACK PPFA934P and BLACK PPF9421P are cost efficient black masterbatches for polypropylene yarns, containing 30% and 40% respectively of a P type carbon black in a PP homopolymer carrier. Their excellent dispersion and controlled rheology make them an ideal solution for CF and BCF yarns. Additionally the presence of an antioxidant package in BLACK PPFA934P provides thermal degradation protection during processing and end use. BLACK PPF9440P is recommended for PP spun bonds and non woven.

c) KRITILEN® BLACK 4443

BLACK 4443 is a LL based masterbatch containing 40% of a special extra clean and high jetness carbon black. This product aims to provide the following advantages to fiber producers:

- Increased color strength
- Blue tone, as expressed in b* value in CIELab coordinates
- Optimum filterability/spin ability, due to the excellent dispersion of the carbon black in the PP carrier.

d) KRITILEN® BLACK PT6301 and PT6302

KRITILEN® BLACK PT6301 is a PBT (Poly-Butylene-Terephthalate) based masterbatch containing 30% of an extra clean and high jetness carbon black (the same type as in BLACK 4443). BLACK PT6301 has an excellent dispersion and optimum rheological properties, which make it suitable for PET or PBT fibers.

KRITILEN® BLACK PT6302 contains 30% of an economic alternative premium P type carbon black offering excellent dispersion and brownish undertone.

Food Approval Status

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

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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.