

KRITILEN®

New Generation Calcium Carbonate Concentrates

9

5701

577

5771

5801

5804

KRITILEN® 5701, KRITILEN® 577, KRITILEN® 5771, KRITILEN® 5801 and KRITILEN® 5804 are concentrates of selected calcium carbonates in special olefin carriers. They are mainly used in blown HDPE, MDPE, LLDPE or LDPE films, offering cost reduction, increased extruder output, better bubble stability, anti-blocking properties, improved welding ability & printability, without affecting the mechanical properties of the films. In some applications these special KRITILEN calcium carbonate concentrates improve the impact strength and the tear resistance of films.

KRITILEN® 5701, KRITILEN® 577, KRITILEN® 5771, KRITILEN® 5801 and KRITILEN® 5804 exhibit excellent dispersion, low moisture content and are mainly used in thin (15-25µm) HDPE/MDPE films (T-shirt, grocery bags and super-market type applications).

For thicker LD/LL films (above 30 mic) our standard range of KRITILEN® FILLERS can be used (KRITILEN® 575, KRITILEN® 580, KRITILEN® 585).

KRITILEN® special calcium carbonate concentrates already provide an off-white finish to the films, a feature reducing the need of adding TiO₂ in the film recipe. However a white-pigmented version of the 5804 (containing Calcium Carbonate plus TiO₂) is also available under the code KRITILEN® 5805.

Addition Rates

Typical let down ratios for KRITILEN® 5701, 577 and 5801 vary from 5-40% depending on the final product specifications, the product application and the production equipment.

KRITILEN® 5804 is mainly used in hygienic films (e.g diapers, napkins, tissues) at addition rates 40-50%.

KRITILEN® 5771 is used mainly in thin packaging films containing high amount of LLDPE/mLLDPE at addition rates 5-50% depending on the final application.

Packaging

The products come in a regular pellet form and packed in 25 kg bags (1225 kg pallets)

Typical Product Technical Characteristics

KRITILEN®	5701	5801	5771	577	5804
CaCO3 content	70%	80%	70%	70%	80%
CaCO3 Median size (D50), mic.	3.7	3.7	2	2	2
CaCO3 Top Cut (D97), mic.	9.5	9.5	7	7	7
CaCO3 Hardness (Mohs)	1.5	1.5	1.5	1.5	1.5
Polymer	LLDPE	LLDPE	m LLDPE	LLDPE	Proprietary
Density (gr/cm3)	1.71	1.8	1.71	1.71	1.8
MFI (190C / 2.16Kg)	0.1-1	0.1-1	0.1-1	0.1-1	0.1-1
Moisture Content (%)	<0.2	<0.2	<0.2	<0.2	<0.2
Bulk Density (Kg/lt)	0.95-0.99	1.1-1.3	0.95-0.99	0.95-0.99	1.1-1.3
Physical form	pellets	pellets	pellets	pellets	pellets

07/16

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.