

## MBFP NANO-CAL

Master batch of Nano CaCO<sub>3</sub> + LLDPE

Grade : MBFP NC-K0103

### Applications

1. PE shopping bags & garbage bags.
2. PE industrial films, packaging materials & containers etc.

### Features

1. MBFP NC-K0103 is a LLDPE-based master batch containing 78% calcium carbonate. It is grayish white with excellent dispersibility.
2. It can be mixed with PE resin for film blowing, casting, extrusion etc. and is easy to disperse with good compatibility. It functions as a modifier to improve the heat resistance, slip resistance, size stability, printability and texture. It also reduces heat release from burning and therefore prevents further environmental pollution.

### Processing suggestions

1. General loading is recommended at 5~30% with variation according to the products.
2. The processing temperature is set according to resin' s processing temperature and it applies well among 220±40°C.

### Basic properties

1. MBFP NC-K0103 properties

Properties	Test method	Unit	Typical value
Base material	.....	.....	LLDPE
CaCO <sub>3</sub> content	.....	%	78
(MI)@5kg/190°C	ASTM D1238	g/10mins	1.7
Density@23°C	ASTM D1505	g/cm <sup>3</sup>	1.88
Moisture	IR moisture meter	%	< 0.20
Shape	.....	granule	3~4mm <sup>φ</sup>

2. Blown film properties of MBFP NC-K0103 mixing with TAISOX<sup>®</sup> HDPE-9001

Properties MBFP NC-K0103(%)	Tensile strength at break (kg/cm <sup>2</sup> )	Elongation at break (%)
0	504	456
5	493	493
10	462	462
15	452	452
20	398	398
30	375	375

Film processing: BUR=3.5, film thickness=20 μm

Packing: 25kg/bag