MBFP NANO-CAL

Master batch of Nano CaCO3 + HDPE

Grade：MBFP NC-H0117

Applications

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

Features

1. MBFP NC-H0117 is a HDPE-based master batch containing 75% calcium carbonate. It is grayish whitewith excellent dispersibility.
2. It can be mixed with PE resin for film blowing, casting, extrusion etc. and is easy to disperse withgood compatibility. It functions as a modifier to improve the heat resistance, slip resistance, sizestability, printability and texture. It also reduces heat release from burning and therefore preventsfurther environmental pollution.

Processing suggestions

1. General loading is recommended at 5~20% 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℃.

Basic properties

1. MBFP NC-H0117 properties

Properties	Test method	Unit	Typical value
Base material	……	……	HDPE
$CaCO_3$ content	……	%	75
(MI)@2.16kg/190℃	ASTM D1238	g/10mins	0.7
Density@23℃	ASTM D1505	g/cm^3	1.83
Moisture	IR moisture meter	%	< 0.20
Shape	……	granule	3~4mm$^{\Phi}$

2. Blown film properties of MBFP NC-H0117 mixing with TAISOX® HDPE-9001

Properties / MBFP NC-H0117(%)	Tensile strength at break (kg/cm^2)	Elongation at break (%)
0	504	456
5	461	408
10	462	379
15	427	348
20	398	375

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

Packing : 25kg/bag