

MBFP NANO-CAL

Master batch of Nano CaCO₃ + LDPE

Grade : MBFP NC-L0117

Applications

1. PE shopping bags & garbage bags.
2. PE industrial films and packaging materials

Features

1. MBFP NC-L0117 is a LDPE-based master batch containing 70% 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 5~50% 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-L0117 properties

Properties	Test method	Unit	Typical value
Base material	LLDPE
CaCO ₃ content	%	70
(MI)@2.16kg/190°C	ASTM D1238	g/10mins	2.0
Density@23°C	ASTM D1505	g/cm ³	1.73
Moisture	IR moisture meter	%	< 0.20
Shape	granule	3~4mm ^φ

2. Blown film properties of MBFP NC-L0117 mixing with TAISOX[®] HDPE-9001

Properties MBFP NC-L0117(%)	Tensile strength at break (kg/cm ²)	Elongation at break (%)
0	504	456
5	478	418
10	456	403
15	435	405
20	430	400
30	330	343

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

Packing : 25kg/bag