

MBFP U-CAL

Masterbatch of CaCO₃ + LLDPE

Grade : MBFP UC- ML3

Applications

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

Features

1. MBFP UC-ML3 is a LLDPE-based masterbatch containing 80% 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 UC-ML3 properties

Properties	Test method	Unit	Typical value
Base material	LLDPE
CaCO ₃ content	%	80
MI@5kg/190°C	ASTM D1238	g/10mins	1.4
Density@23°C	ASTM D1505	g/cm ³	1.9
Moisture	IR moisture meter	%	< 0.20
Shape	granule	3-4mm ^φ

2. Blown film properties of MBFP UC-ML3 mixing with TAISOX[®] HDPE-9001

Properties MBFP UC-ML3(%)	Tensile strength at break (kg/cm ²)	Elongation at break(%)
0	504	456
5	437	348
10	432	344
15	389	332
20	381	342
30	337	316

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

Packing: 25kg/bag