

MBFP U-CAL

Masterbatch of CaCO₃ +PP

Grade : MBFP UC-MP1

Applications

1. Flat yarn
2. Strapping band
3. Injection molding, blow molding, extrusion molding

Features

1. MBFP UC-MP1 is a PP-based masterbatch containing 80% ultra-fine calcium carbonate. It is grayish white color with excellent dispersibility.
2. It can be mixed with PP resin for extrusion, thermal forming, injection etc. and is easy to disperse with good compatibility. It functions as a modifier to improve the heat resistance, gloss, flexural strength, size stability, printability and texture. It also reduces heat release from burning and therefore prevents further environmental pollution.

Processing suggestions

1. General loading at 5~40 % with variation according to the product.
2. The processing temperature is set according to resin' s processing temperature, generally at 240±40°C.

Basic properties

1. MBFP UC-MP1 properties

Properties	Test method	Unit	Typical value
Base material	PP
CaCO ₃ content	%	80
MI@2.16kg/230°C	ASTM D1238	g/10mins	2.2
Density@23°C	ASTM D1505	g/cm ³	1.9
Moisture	IR moisture meter	%	< 0.20
Shape	granule	2-3mm ^φ

2. Injection sheet properties of MBFP UC-MP1 mixing with YUNGSOX PP-3080

Properties MBFP UC-MP1(%)	Tensile strength at break (kg/cm ²)	Flexural modulus (kg/cm ²)	IZOD Impact strength (kg•cm/cm)
0	266	10247	10.2
5	262	10828	8.6
10	260	11694	7.5
15	255	12481	7.0
20	243	13182	6.5
30	225	15507	6.0

Packing : 25kg/bag