MBFP NANO-CAL

Master batch of nano CaCO3 + PP

Grade：MBFP NC- P5059

Applications

Automotive parts, electric appliance parts,toys,battery shell,furniture,washing machine parts,thin wall products and other general injection products.

Features

1. MBFP NC-P5059 is a PP-based master batch containing 78% ultra-fine and nano 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 5~30 % with variation according to the product.
2. The processing temperature is set according to resin’s processing temperature, generally at 240±40℃.

Basic properties

1.MBFP NC-P5059 properties

Properties	Test method	Unit	Typical value
Base material	……	……	PP
$CaCO_3$ content	……	%	78
(MI)@2.16kg/230℃	ASTM D1238	g/10mins	30
Density@23℃	ASTM D1505	g/cm^3	1.93
Moisture	IR moisture meter	%	< 0.20
Shape	……	granule	2~3mm$^{\Phi}$

2. Injection sheet properties of MBFP NC-P5059 mixing with YUNGSOX PP-3080

Properties / MBFP NC-P5059(%)	Tensile strength at break (kg/cm^2)	Flexural modulus(kg/cm^2)	IZOD Impact strength (kg・cm/cm)
0	266	10247	10.2
5	260	10584	10.7
10	253	11388	10.7
15	246	11972	10.7
20	244	12891	11.2
30	226	14152	12.3

Packing:25kg/bag