

NANO CAL

LLDPE

Masterbatch of Nano CaCO₃ +LLDPE

(Grade) : NC-K0103

LDPE/HDPE

1. **NC-K0103** is LLDPE-based and contains highly dispersive Nano Precipitated Calcium Carbonate (NPCC) fillers. It applies well in LDPE and HDPE blown film and blow molding products.

2. It can be mixed with PE resin directly for film blowing, casting, extrusion etc. and is easy to disperse with good compatibility. It's a kind of modifier which can improve the heat resistance, slip resistance, size stability, printability and texture, also reduce heat release from burning and the risk of secondary environmental pollution.

(Applications)

1. LDPE 、HDPE

Modifier for general purpose LDPE and HDPE film : Garbage bags which generate less heat, flat yarn, inner film for laminated paper bags, shopping bags, adhesive tape etc..

2. Seed for cellular foam : Shoe material, packing padding etc..

3. Blow molding products : bottles, buckets etc.

(Product properties)

1. Good dispersion, no coming off powder even at high ratio dosin g.

2. To prevent emission problems by generating less heat, no oil dripping and less smoke when burning. No damage to the incinerator.

3. To enhance the quality of foam products.

4. Good printability.

5. To enhance the surface smoothness and gloss of products.

6. To decrease the usage of white pigment because of possessing good opacity.
7. To improve the working environment and easy for automatic weighing.
8. To make cost down.

(Processing suggestions)

- 1.- General dosage at 5~40 PHR, variation according to the characters of product.
- 2.- The processing temperature is set according to resin's processing temperature, can be used among 220±40□.

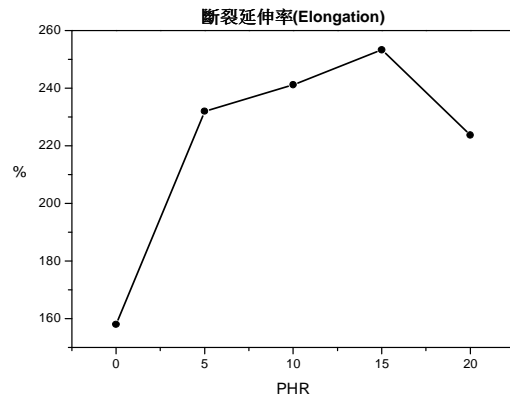
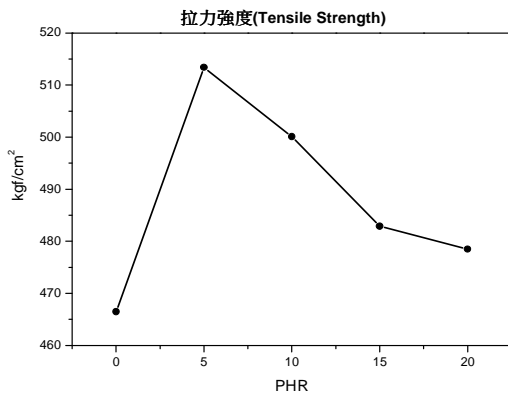
(Specifications)

| 項 目 (Item) | 測定方法 (Test method) | 單位(Unit) | 代表值 (Typical value) |
|--|--------------------|-------------------|---------------------|
| 基材 (base) | ----- | ----- | LLDPE |
| CaCO ₃ 含量 (CaCO ₃ content) | ----- | % | 70 |
| 比重 (Specific gravity) @23°C | ASTM D1505 | g/cm ³ | 1.75 |
| 熔融指數 (MI) @2.16 kg /190°C | ASTM D1238 | g/10mins | 1.4±0.5 |
| 水份 (Moisture) | IR | % | < 0.2 |
| 形狀 (Shape) | ----- | 粒狀膠粒 granule | 2~3mm ^Ø |

(Processing example)

: HDPE-90013.5~411µm

Blown film test: Base material TAISOX[®] HDPE-9001, blown film ratio 3.5~4, thickness



(Packing) : 25 kg/bag ◦

Note : Use immediately once open to atmosphere. Keep away from moisture.