



### SKY-M-23001 成核劑 Nucleating agents

#### 性能 Function

1:成核劑提供所需的晶核，使均相成核轉變成異相成核。

Nucleating agents provide the necessary crystal nuclei to convert homogeneous nucleation to heterogeneous nucleation.

2:加速結晶速度，使晶粒結構細化。

Accelerate the crystallization speed and refine the grain structure.

3:提高產品的剛性，縮短成型周期，保持最終產品的尺寸穩定性。

Improve the rigidity of the product, shorten the molding cycle, and maintain the dimensional stability of the final product.

4:改善透明性和光澤及聚合物的物理機械性能(如剛度、模量)。

Improve transparency and gloss as well as physical and mechanical properties of polymers (such as stiffness, modulus).

5:複合成核劑(無機+有機)互補物性。

Composite nucleating agent (inorganic + organic) complementary properties.

6:改善材料缺口衝擊強度提高抗凍衝擊強度。

Improve material notched impact strength and improve frost resistance impact strength.

#### 使用量 Usage amount

代號 No	外觀 appearance	主要用途:Main use
SKY-M-3001	粒狀 powder	PP, PE, PVC 成核劑，建議添加量 0.1%~ 1%, PP, PE, PVC Nucleating agent, the recommended addition amount is 0.1%~1%,

E-mail: [lin0936034646@gmail.com](mailto:lin0936034646@gmail.com) (Lin Chai Tien)



**SKY-MPP-23002 成核劑母粒 Nucleating agent masterbatch**

**性能: Function**

1:PP 成核劑母粒提供 PP 所需異相成核劑晶核，改善 PP 耐衝擊物性。

PP nucleating agent masterbatch provides heterogeneous nucleating agent crystals required for PP, improving its impact resistance.

2:提供 PP 抗凍衝擊強度使 PP 適用在低溫環境中衝擊強度提高。

Provide anti freezing impact strength of PP to improve its impact strength in low-temperature environments.

3:成核劑母粒可改善 PP 其他物性。

Nucleating agent masterbatch can improve other physical properties of PP.

**使用量 Usage amount**

使用量 Usage amount

代號 No	外觀 appearance	主要用途:Main use
SKY-M-3002	粒狀: Granular r	PP 成核劑母粒，建議添加量 0.1%~ 1%, PP Nucleating agent masterbatch, the recommended addition amount is 3%~10%,

**物性(異相成核劑含量 5%) Physical properties (heterogeneous nucleating agent content 5%)**

拉伸強度/MPa Tensile strength/ MPa	31.4	彎曲強度/MPa Bending strength/MPa	38.3
彎曲模量/Mpa Bending modulus/Mpa	1750	斷裂伸長率 Elongation at break	19.2
簡支梁缺口衝擊強度 Notch impact strength of simply supported beams	4.9	簡支梁缺口衝擊強度零下 20 度 The impact strength of a simply supported beam notch is minus 20 degreeS	2.2