



## Slip Masterbatch

### INTRODUCTION

Polyolefin films tend to adhere to themselves (film-to-film) and metal surfaces (film-to-metal) due to their high coefficient of friction (COF). For easy processing, polyolefin films need around 0.2 COF. Slip agent masterbatches are able to modify the surface properties of a film and thus lower the friction between film layers and other surfaces. To be effective the slip needs to migrate out of the polymer to the surface and therefore it must have a degree of incompatibility with the polymer.

As slip agents, fatty acid amides (Oleamide, Erucamide and Stearamide) are normally used. During processing they are solubilized in the amorphous melt, but as the polymer cools and crystallizes the fatty acid amides are squeezed out forming a lubricating layer at the polymer surface. The addition of slip agents can prevent film sticking and pulling helping to increase throughput.

#### MAIN FEATURES

- ✓ Improve the flow characteristics of plastics during processing.
- ✓ Reduce the frictional resistance of end product surfaces.
- ✓ Enhance both appearance and function.
- ✓ Can be used together with other additive masterbatches such as anti-blocking, antistatic and heat stabilizer masterbatches.



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## SPECIFICATIONS

Appearance	Clear White Granuels
Slip (active agent)	7 - 10 %
Loose Bulk Density	0.41 ~ 0.52 g/cm <sup>3</sup>
Specific Gravity	0.910 - 0.940 g/cm <sup>3</sup>
Carrier Resin	LDPE - 70- 90%



## USAGE

Up to 4 wt%.

Because processability and quality of applications are depended on processing conditions (temperature, pressure, speed, etc.) and applied resins, the optimum dosage rate must be determined by pre-test.



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## PACKING & STORAGE

Slip masterbatch is available in the packing of 25 Kg laminated moisture proof woven sack bag. Keep the product in cool & dry place with good ventilation. Away from the direct sunlight, high temperature, rain pour and not under heavy loads. Shelf life of Slip masterbatch is about 12 months from the manufacturing date. Thereafter still it can be used, but with little higher dosage %g than usual.

## NOTE

**Always set up a trial before standardizing.**

If a customer requires technical advice or help, our resource team is available for technical support.



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