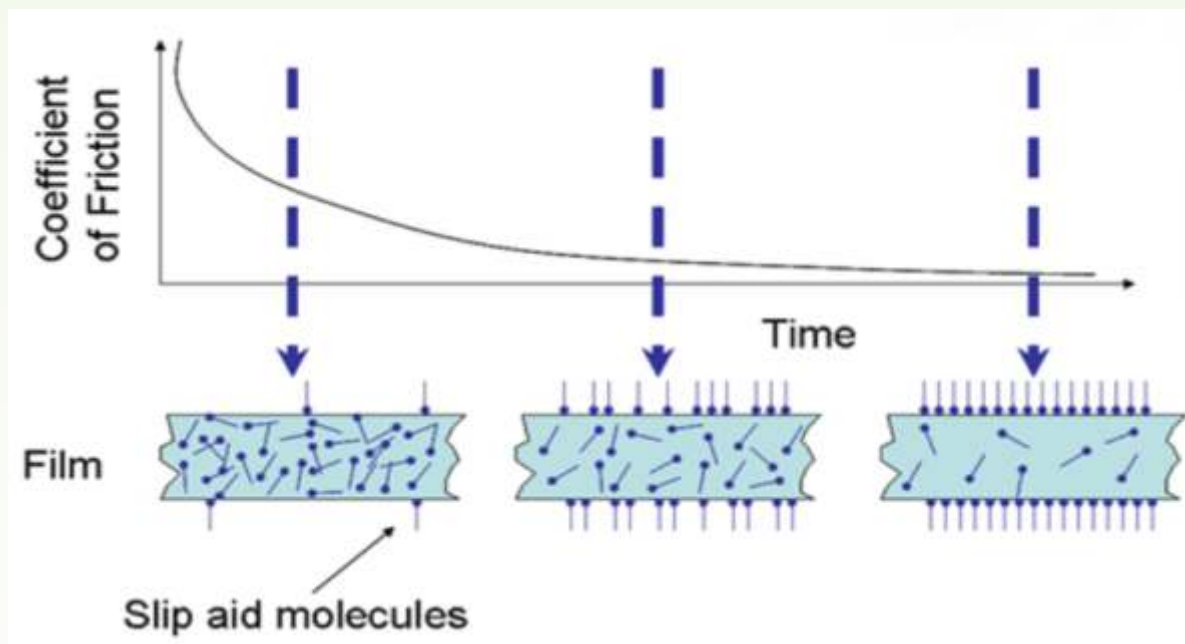


SLIP MASTERBATCH

Polyolefins (PE / PP) due to their waxy nature exhibit a degree of tackiness and hence, are not readily processed into packaging films without the presence of additives which enhance their ability to separate & slide.

Polyolefin films tend to adhere to themselves and metal surfaces due to their high coefficient of friction (COF). Slip additives due to their limited compatibility with the polymer, bloom to the surface of the film, post extrusion, thus lowers the friction / COF between film layers and other surfaces. For ease of processing, the polymer films need a COF near 0.20 to 0.40.



Majority of the COF reduction takes place in the first 24 – 48 hrs & the optimum values are reached within 7 – 10 days of manufacturing.

The amount of slip additive required is established by the desired COF of the film & also presence of Antiblock additive. Slip & Antiblock additives complement each other and thus the Dosage levels needs to be regulated as excessive additive will result in winding difficulties, telescoping of rolls, waxy buildup on the equipment & also interfere with corona treatment.

The additive also aids in mold release, thus denesting & demolding of containers is improved without affecting surface adhesion properties.

Supreme Slip Masterbatch is based on organic compositions & optimized specially for polyethylene & polypropylene films, molded (injection, blow & roto) containers. It is available at 5 & 10% active content for ease of addition and dispersion.

Benefits of Slip Masterbatch

- ❖ Minimize coefficient of friction (COF) between film to film & film to metal
- ❖ Minimize risk of blocking, thus faster winding & unwinding of films
- ❖ Less interference with printing & lamination
- ❖ Excellent sealability & weldability
- ❖ Effective mold release without affecting label adhesion
- ❖ Prevents cracking of sheets during cutting / thermoformed parts during denesting.

Applications of Slip Masterbatch

- ❖ Blown Film
- ❖ Cast Film
- ❖ Sheet Extrusion
- ❖ Foam Extrusion
- ❖ Pipe Extrusion

Available Grades

SPL Grades	Active Content (%)	Compatible Polymers	Dosage (%)
SP7134 0005	5	LLDPE, LDPE, HDPE, PPHP, PPCP	1 to 2
SP7134 0010	10	LLDPE, LDPE, HDPE, PPHP, PPCP	1 to 2

Regulatory Compliance

At recommended levels, SPL Slip Masterbatch(s) are suitable for food contact applications. All grades are Heavy Metal free and are compliant with RoHS regulation.

Packaging & Storage

Material is supplied in pellet form, packed in 25 Kg laminated bags. SPL recommends storage of material in a ventilated & covered facility, protected from Moisture, Sunlight and Heat. The packing material used is not UV stabilized and hence should not be exposed to sunlight.



SUPREME PETROCHEM LTD

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