

	<i>Novin Baspar Sazeh Co.</i>	2023
	NovinSlip-F5020	Additive Masterbatch

Datasheet for Slip Masterbatch, NovinSlip-F5020

Introduction

This group of masterbatches with trade name NovinSlip® are mainly used in film production to act as a friction reducer between two layers of film, and between film and the production machines. These masterbatches come in two major categories, fast migrating and slow migrating. One of these two kinds is chosen depending on the final properties of the film, and the printing method.

NovinSlip-F5020 is a masterbatch containing refined vegetable oil based Oleamide, based in a LDPE carrier resin. This masterbatch is a material which when added to the polymer, while processing into flat profiles like film, sheet etc., reduces the coefficient of friction (COF) of the surfaces.

Main Features

- Reduces frictional resistance between two plastic films and between plastic and metal parts.
- In polyolefin film production, facilitates increased line speed in manufacturing process and enhances packaging machine operation due to COF reduction.
- Ensures good handling properties in automatic packaging machines.
- Slip additive (Oleamide) is fully REACH registered and is cleared for use in articles for indirect food contact by FDA.

Specifications

Property	Value
Appearance	Milky Opaque Cylindrical Pellet
Slip Agent	Oleamide
MFI (g/10min; 190 ^o C, 2.16 Kg)	3-4
Melting Point (°C)	121
Density (g/cm ³)	~0.92
Addition Rate (wt%)	0.5-2 % depending on desired effect

Guidelines to Use

1. NovinSlip-F5020 is compatible with all grades of PE and PE/EVA alloy films. It can be used with antiblocking agents when required.
2. When using NovinSlip-F5020 in polyolefins, the migration of the fast migration slip agent starts immediately and reaches full performance in a matter of hours.
3. NovinSlip-F5020 should not be used in the films which are printed.
4. It is also used as a mold releasing agent for injection molding and gives surface gloss to some molded parts.
5. NovinSlip-F5020 should not be used in cling film formulations using polybutene.

The addition rate of NovinSlip-F5020 depends on the performance requirements of the final product. Recommended addition rates are between 0.5 and 2 % by weight of the masterbatch, depending on the film thickness, the processing conditions and the polymer grade. The coefficient of friction rapidly decreases after extrusion and levels out to a constant value after 1-2 days.

Applications

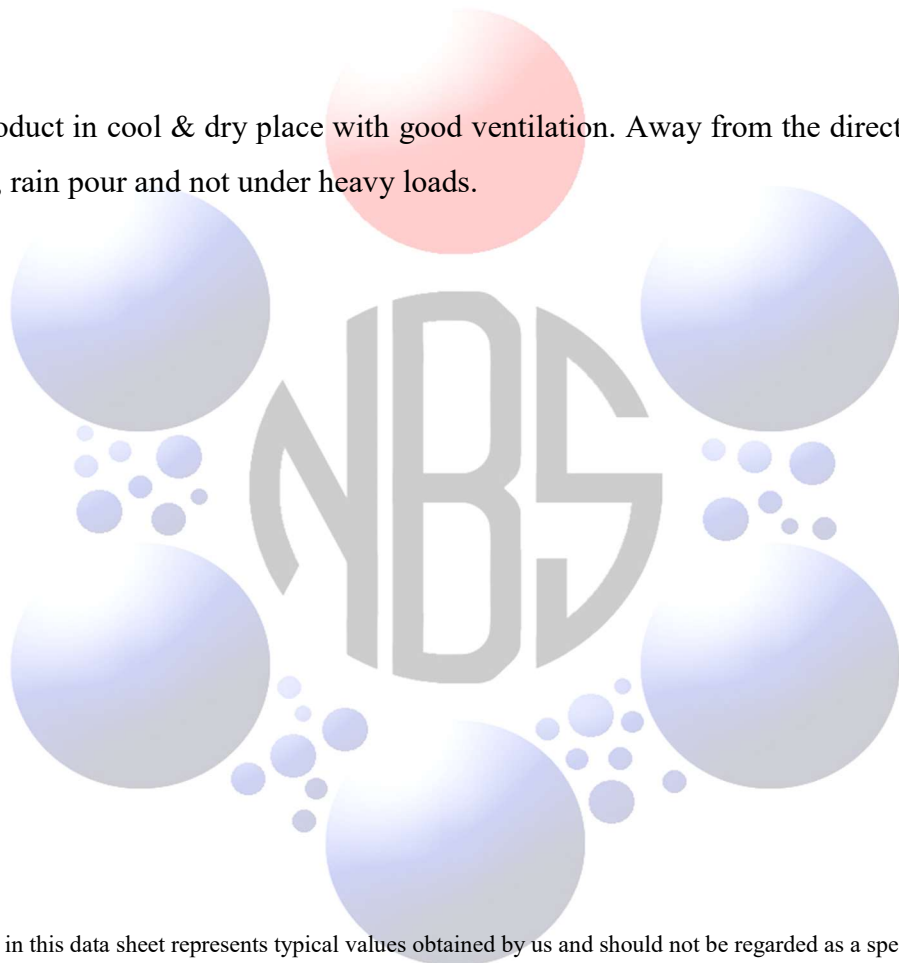
Suitable for cast and blown film process

Packaging

The standard packing is 25 kg PE bags.

Storage

Keep the product in cool & dry place with good ventilation. Away from the direct sunlight, high temperature, rain pour and not under heavy loads.



The information in this data sheet represents typical values obtained by us and should not be regarded as a specification.

We condition that the product will be inspected and qualified by the customer for his process to meet the specific requirements set by application, processing equipment and end product.

Contacts:

Detailed information on special applications and technical information is available at the Technical Department.

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