

	<i><b>Novin Baspar Sazeh Co.</b></i>	<b>2023</b>
	<b>NovinSlip-S5016</b>	<b>Additive Masterbatch</b>

## Datasheet for Slip Masterbatch, NovinSlip-S5016

### 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-S5016 is a masterbatch containing refined Erucamide, based on polyethylene as 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. When using NovinSlip-S5016 in polyolefins, the slow migration slip agent migrates to the surface relatively slowly thus reducing potential problems during winding, sealing and/or printing. NovinSlip-S5016 reduces the COF between the layers of the film.

### Main Features

- Reduces frictional resistance between two plastic films and between plastic and metal parts.
- NovinSlip-S5016 does not give problems in printing, heat sealing or bonding if not overdosed.
- NovinSlip-S5016 makes processing more efficient with higher productivity and improved quality.

- In polyolefin film production, NovinSlip-S5016 facilitates increased line speed in manufacturing process and enhances packaging machine operation due to reducing COF.
- Ensures good handling properties in automatic packaging machines

## Specifications

Property	Value
Appearance	Natural Color Cylindrical Pellet
MFI (g/10min; 190 <sup>0</sup> C,2.16 Kg)	6-8
Melting Point (°C)	≤130
Density (g/cm <sup>3</sup> )	~0.92
Temperature Stability	< 260 °C
Addition Rate	1 ~ 2.5% depending on desired effect

## Guideline to Use

1. NovinSlip-S5016 is developed for use in polyolefin film and extrusion applications where slip property is required.
2. NovinSlip-S5016 is compatible with all grades of PE and EVA. It can be used with antiblocking agents when required.
3. NovinSlip-S5016 is also used as a mold releasing agent for injection molding and gives surface gloss to some molded parts.
4. NovinSlip-S5016 should not be used in cling film formulations using polybutene.

The addition rate of NovinSlip-S5016 depends on the performance requirements of the final product.

Recommended addition rates are between 1 and 2.5 % by weight of the masterbatch, depending on the film thickness, the processing conditions and the polymer grade.

The coefficient of friction rapidly decreases during the first day after extrusion and levels out to a constant value after 2-3 days.

## **Applications**

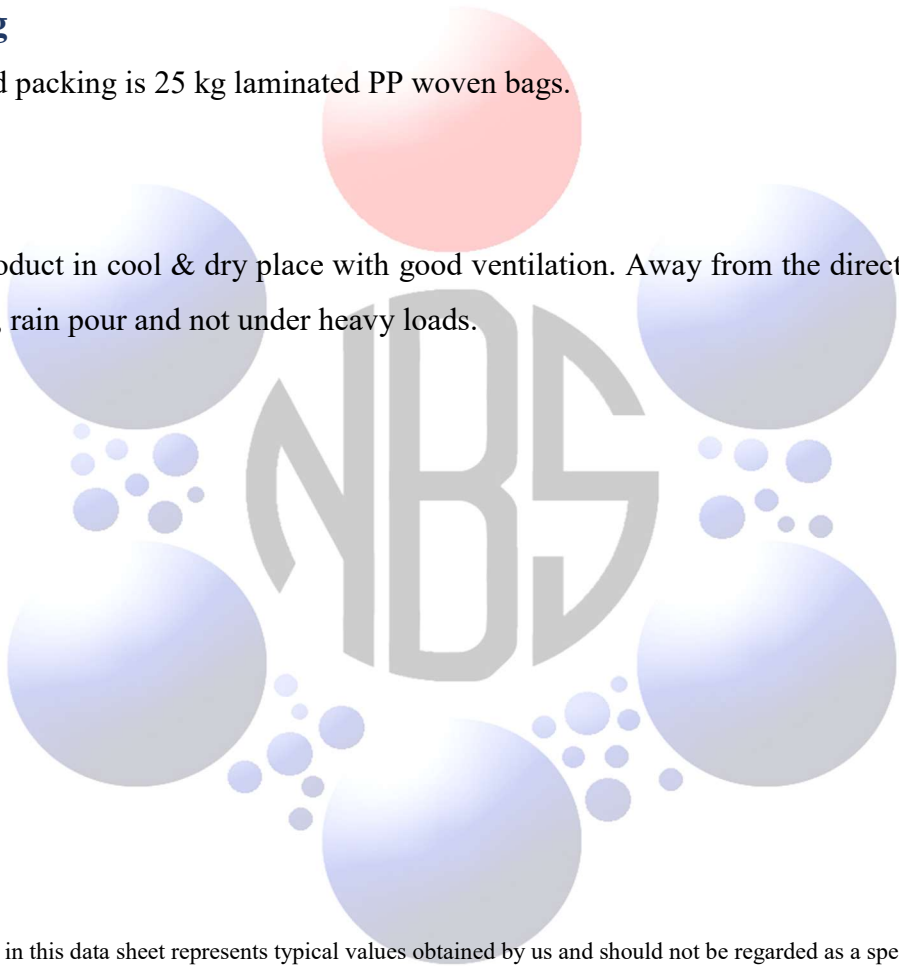
Suitable for cast and blown film process.

## **Packaging**

The standard packing is 25 kg laminated PP woven 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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