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|  | <b><i>Novin Baspar Sazeh Co.</i></b> | <b>2017</b>                     |
|   | <b>NovinSlip- S530</b>               | <b>Additive<br/>Masterbatch</b> |

## Datasheet for Slip Masterbatch, NovinSlip-S530

### 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-S530 is a masterbatch containing refined Erucamide, based in a blend of LDPE & LLDPE carrier polymer. 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-S550 in polyolefin's, the slow migration slip agent migrates to the surface relatively slowly thus reducing potential problems during winding, sealing and/or printing. NovinSlip-S530 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-S530 does not give problems in printing, heat sealing or bonding if not overdosed.

- NovinSlip-S530 makes processing more efficient with higher productivity and improved quality.
- In polyolefin film production, NovinSlip-S530 facilitates increased line speed in manufacturing process and enhances packaging machine operation due to reduced COF.
- Ensures good handling properties in automatic packaging machines

## Specifications

| Property                                  | Value                                  |
|---|--|
| Appearance                                | Milky Opaque Cylindrical Pellet        |
| Erucamide Content (%)                     | 10                                     |
| MFI (g/10min; 190 <sup>0</sup> C,2.16 Kg) | 6-7                                    |
| Melting Point (°C)                        | 130                                    |
| Density (g/cm <sup>3</sup> )              | ~0.95                                  |
| Temperature Stability                     | < 260 °C                               |
| Addition Rate                             | 0.5 ~ 1.5% depending on desired effect |
| Filler                                    | None                                   |

## Guideline to Use

1. NovinSlip-S530 is developed for use in polyolefin film and extrusion applications where slip property is required.
2. NovinSlip-S530 is compatible with all grades of PE and EVA. It can be used with antiblocking agents when required.
3. NovinSlip-S530 is also used as a mold releasing agent for injection molding and gives surface gloss to some molded parts.
4. NovinSlip-S530 should not be used in cling film formulations using polybutene.

The addition rate of NovinSlip-S530 depends on the performance requirements of the final product.

Recommended addition rates are between 0.5 and 1.5 % 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 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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