



# DIAMOND ADDITIVE

## Plastic Additives Supplier

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### PRODUCT DATA SHEET

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#### SL-E

**CHEMICAL DESCRIPTION :** Erucamide

**TYPICAL SPECIFICATIONS :** Appearance : Beads/ microbeads

Colour (Gardner) : 2.0 max

Amide Content : 98.0 % min

Iodine Value : 70 - 85

Acid Value : 1.0 max

Melting Point°C : 83 ± 5°C

Moisture : 0.25% max

SL-E is a refined vegetable oil based - Erucamide.

SL-E is an excellent slip agent and a good anti-blocking agent for poly-olefins.

#### APPLICATIONS:

When SL-E is mixed with a polymer, it reduces friction between the polymer and processing equipment and also between the polymer - polymer inter-faces.

Due to its migration, a thin film of SL-E is formed on the surface of the finished product and this provides the slip effect and anti-block performance.

SL- E (Erucamide) is recommended for use in both LDPE & LLDPE as well as PP film grade applications.

SL-E (Erucamide) better high temperature performance than SL-O(Oleamide).

This makes it particularly more useful for PP Film applications because SL-E allows higher processing temperatures.

The longer carbon chain of Erucamide causes a delayed migration in comparison to Oleamide, which is a required property, if printing or sealing is carried out directly after processing the film.

**SUGGESTED USE LEVEL:** PE - 0.05 to 0.3%      PP - 0.05 to 0.3%

**STORAGE:** It is suggested to store SL-E in a cool and dry place. Prolonged storage above 35°C can cause caking.

**SHELF LIFE:** The quality of SL-E is expected to be within specified limits for 12 months from the date of production, when stored under prescribed conditions.

**APPROVALS:** SL-E is cleared for use in articles for indirect food

**TOXICOLOGICAL DATA:** Oral LD<sub>50</sub> rat > 2000 mg/kg.

Skin Irritation (rabbit) Minimally irritating. Eye Irritation (rabbit) Minimally irritating.

**PACKING:** The standard packing is special 25kg Boxes.

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