



## **FINAWAX-E**

**CHEMICAL DESCRIPTION** : Erucamide

**CAS NUMBER** : 112-84-5

**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

(Slight variations in the specifications stated due to raw materials and production conditions are possible though they have no influence on the application properties described.)

FINAWAX-E is a refined vegetable oil based - Erucamide. FINAWAX-E is an excellent slip agent and a good anti-blocking agent for poly-olefins.

### **APPLICATIONS:**

When FINAWAX-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 FINAWAX-E is formed on the surface of the finished product and this provides the slip effect and anti-block performance.

Finawax E (Erucamide) is recommended for use in both LDPE & LLDPE as well as PP film grade applications. FINAWAX-E (Erucamide) better high temperature performance than FINAWAX-O (Oleamide). This makes it particularly more useful for PP Film applications because FINAWAX-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 FINAWAX-E in a cool and dry place. Prolonged storage above 35°C can cause caking.

### **SHELF LIFE**

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

### **APPROVALS**

- : FINAWAX-E is cleared for use in articles for indirect food contact by US FDA under CFR 21 under the following Para.

CFR 21 § 175.10	components of adhesives
CFR 21 § 175.300	components of resinous and polymeric coatings
CFR 21 § 176.180	components of paper and paperboard in contact with dry food
CFR 21 § 177.1210	components of closure and sealing gaskets for food containers
CFR 21 § 177.3860	components of polymeric resins that contact food
CFR 21 § 179.43	component of packaging material during radiation preservation of pre-packaged food

### **Some of the food contact approvals are:**

**EU** : Erucamide is fully REACH registered

Erucamide is listed in EU Directive 2002/72/EC without limitations. It is approved in EU at a harmonized level. Single States legislations applicable to individual has been no longer valid since 1999.

<b>Australia</b>	: AS 2070/1/01	0.2% (in PE and PP)
<b>Japan</b>	: PE and PP	1.0%
	PS, HIPS, SAN, ABS	0.1%
	Utensils	2%

### **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 25 kg. PE bags. We can also offer 500 / 600 kg grounded big bags on demand.

The recommendations in this bulletin are made without guarantee since the conditions of use are beyond our control. Users should make their own tests depending on machinery available and desired properties.