

ABRIL 9031

Outstanding Slip Agent

A lubricant for thermoplastics based on ethylene-bis-oleamide. Capable of wide application, being equally suitable for polyolefins, polystyrene and polycarbonate. However, it is particularly suitable for use in applications requiring enhanced slip and anti-block characteristics such as EVA, PVC and polyolefin films and polyamides. Abril 9031 has a number of FDA food contact approvals making it suitable for use in many films and film coatings.

See also Abril 9031 "hot melt adhesive" data sheet

CAS No 110-31-6

EINECS No 203-756-1

DESCRIPTION

- Lubricant for thermoplastics
 Ethylene-bis-oleamide
 Medium melting point
 Non-toxic

- ✓ F&DA approved for many food contact applications

1. THERMOPLASTIC FILMS (Ideal slip & anti-block agent)

Provides good anti-block and release performance in polyolefin films such as BOPP and in EVA film coatings.

2. CELLOPHANE

Abril 9031 performs well as an anti-static and anti-block additive in cellophane coatings at addition rates of 0.15 - 0.5% and in this role will aid rather than interfere with heat sealing operations.

3. POLYSTYRENE (Anti-static & anti-block)

Will lower the melt viscosity of polystyrene and greatly assist in the compounding of grades with differing melt flow index. Benefits are improved mould filling and reduced shrinkage through the use of lower temperatures while the properties of the base polymer remain virtually unaltered.



OTHER APPLICATIONS INCLUDE:

- ✓ Improved pigment dispersion and rapid wetting of fillers
- ✓ Wear and water resistance improved
- Reduces surface tack and blocking
 Reduced cleaning downtime on applicator heads
- ✓ Adhesive film more flexible at low temperatures
- ✓ Ensures uniform pigmented product

Typical Properties

Melting Point	112 °C
Acid Value	< 10 mg KOH/gm
Specific Gravity	0.99 g/cc
Gardner Colour	8 maximum
Flash Point	300 °C
Thermal Stability	Up to 240 °C

Physical Form

Fine Powder: A fine powder of discrete particles produced by centrifugal atomisation.

Packaging

Abril 9031 is supplied in 20 kg paper bags.

Optimum addition rates vary between 0.1% and 2.0% depending on the base polymers and performance level required.



Toxicological Status

U.S. Food and Drug Administration (FDA) Regulated for use under the following - 21 CFR 175.300 Resinous and polymeric coatings 175.320 Resinous and polymeric coatings for polyolefin films 175.380 Xylene-formaldehyde resins condensed with 4,4'-isopropylidenediphenolepichlorhydrin	British Industrial Biological Research Association (B.I.B.R.A.) For plastics in food contact applications Abril 9031 is cleared for use in all polymers up to an addition rate of 5% w/w in the final compound
 epoxy resins 175.390 Zinc-silicon dioxide matrix coatings 176.170 Components of paper and paperboard in contact with aqueous and fatty foods 176.180 Components of paper and paperboard in contact with dry foods 177.1200 Cellophane 177.1210 Closures with sealing gaskets for food containers 177.1330 Ionomeric resins 177.1350 Ethylene-vinyl acetate copolymers (not exceeding 0.0085mg/cm²) 177.1400 Hydroxyethyl cellulose film, water insoluble 178.3860 Release agents 	