Ethylene Bis-Stearamide as Antiblocking agent

Introduction

Palmowax is compatible with most waxes and plasticizers.

Applications

1. When incorporated into plastic molding powder, Ethylene bis-stearamide facilitates the powders flow into all parts of the mold. It also improves pigment dispersion and mold release and, by reducing friction, it reduces static charges, thereby reducing dust pickup. Ethylene bis-stearamide is used as Antiblocking and Slip Agent for thermoset & thermoplastic resins.
2. Ethylene bis-stearamide improves the flow characteristics of the PVC melts acting as internal / external lubricant and anti blocking agent.
3. In plasticized PVC films, Ethylene bis-stearamide acts as a very effective anti blocking agent.
4. Ethylene bis-stearamide increases the flow characteristics of Polystyrene and ABS. In pigmented products it acts as a dispersing agent as well.
5. Ethylene bis-stearamide can be used in Polyolefins as a pigment dispersant aid. It is also suitable as anti blocking agent for the production of LDPE films.
6. In Polyamides 6 and 6.6, Acetal Resins and in injection molding of thermoplastic PUR, Ethylene bis-stearamide is used as an internal mold release agent.
7. Ethylene bis-stearamide at approximately 1% improves the slip and gloss of paraffin/polymer coating for paper and paperboard used in food packaging.
8. Ethylene bis-stearamide functions as a co-solvent or coupling agent for the polyamide resin and paraffin wax components of hot melt adhesives.
9. Ethylene bis-stearamide provides antiblock and lubricity properties when used in molding & extrusion of synthetic rubbers such as GRS, ABS, Hycar, Butyl and Neoprene. It also improves water immersion and chemical resistance of rubber stocks.
10. Ethylene bis-stearamide can be used as pigment grinding aid and dispersant in paints, stains, lacquers and coatings to improve weatherability, resistance to practically all solvents, acids and alkalies. Ethylene bis-stearamide imparts chemical resistance to many types of coatings.
11. Ethylene bis-stearamide finds application in printing ink manufacturing operation as lubricant and slip agent.

Benefits

1 EBS is non-toxic
2 Because of its high melting point, this product will not decompose during heat-sealing operations.
3 Palmowax is a good blending agent.

Specifications

Test	Specification	Test Method
Appearance	White to off-white powder or beads	Visual
Moisture	Max 0.5%	Oven drying at 100 Degrees for 2 hours
Color (Gardner)	Max 3	Colorimetry
Melting Range	141-147	Melting point apparatus
Amine Value (mg KOH/ gm)	Max 2.5	Titrimetry
Acid Value (mg KOH/ gm)	Max 7.5	Titrimetry
Particle Size (D97)	Max 325 mesh	Particle size analyser

Product FDA Status

Ethylene Bis(Stearamide) is approved for use in food contact polymer as per the following chapter headings.

Title	21- Food And Drugs
Chapter	I- Food And Drug Administration Department Of Health And Human Services.
Sub Chapter	B- Food For Human Consumption (Continued).
Part	177 - Indirect Food Additives: Polymers.
Sub Part	B- Substances for Use as Basic Components of Single and Repeated Use Food Contact Surfaces.
Section	177.1200 Cellophane.

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