

DESCRIPTION

TASNEE MB ES1030LD is a concentrated homogeneously dispersed slip–antiblock additive masterbatch in LDPE carrier resin. This masterbatch is intended for following applications.

***LDPE / LLDPE / HDPE Resin Manufacturing:**

TASNEE MB ES1030LD additive masterbatch is intended for producing slip–antiblock grade Low Density Polyethylene (LDPE) / Linear Low Density Polyethylene (LLDPE) / High Density Polyethylene (HDPE) Resins. The additives are homogeneously dispersed in carrier resin results in outstanding slip and antiblock properties with excellent optics in the final film, produced with the LDPE/LLDPE / HDPE resin with TASNEE MB ES1030LD additive masterbatch.

**LDPE resin carrier in the masterbatch can be replaced with suitable LLDPE / HDPE resin for making the additive masterbatch suitable for LLDPE / HDPE resin manufacturing.*

LDPE / LLDPE / HDPE Film Manufacturing:

TASNEE MB ES1030LD is also intended for developing outstanding slip and antiblock properties in polyethylene films. Required quantity (as per slip–antiblock requirement of the film) of this masterbatch can be added through dry-blending or automated dosing system to the polyethylene resin during film manufacturing. The film extrusion can be done using a normal polyethylene film extrusion screw. This masterbatch exhibits outstanding dispersion of slip and antiblock additive in the film matrix results in excellent optical properties with required slip and antiblocking effect in the final film.

TYPICAL APPLICATIONS

- i. Additive masterbatch for slip–antiblock grade LDPE/ LLDPE / HDPE resin
- ii. For developing slip and antiblock properties in Polyethylene films without effecting optical properties.

TYPICAL PROPERTIES

Properties	Unit	Values
Appearance	-	White Pallets
Slip Additive Content	%	10
Antiblock Additive Content	%	30

Note: The typical properties are not to be construed as specifications.

Safety

Workers should be protected from the possibility of skin or eye contact with molten polymer. As minimum precaution, safety glasses and heat resistance gloves are suggested to prevent mechanical or thermal injury to eyes and hands. Molten polymer exceeding processing condition requirements may degrade and release, fumes, vapors and unpleasant odor. In higher concentrations, they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes and vapors. Legislation on the control of emissions and pollution prevention must be observed. If the principles of sound manufacturing practice are adhered to and the place of work is well ventilated, no health hazards are involved in processing the material.

The material may burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. In burning the material generates considerable heat and may release a dense black smoke. Fires should be extinguished by heavy foams or dry powder. For further information about safety in handling and processing please refer to the Material Safety Data Sheet (MSDS).

Storage

The material is packed in 25 kg bags or in 600 – 1200 kg jumbo bags protecting it from contaminations. Since the masterbatch content high percentage of slip, it is advisable to be stored under controlled atmospheric conditions (Temperature: $23 \pm 2^\circ\text{C}$ and RH: $50 \pm 5\%$). Storage time of material longer than 1 year may have a negative influence on the quality of the final product. It is generally recommended to use all materials latest within 1 year from delivery date. The material is subjected to degradation by ultra-violet radiation or by high storage temperatures. Therefore, the material must be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Further, unfavorable storage conditions like high ambient temperature and high atmospheric humidity can affect the performance of the masterbatch.

Disclaimer

The information and data contained in this publication is submitted without prejudice, and is based on our current knowledge, experience and on a limited number of tests". "In view of the many factors that may affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties nor of suitability for a specific purpose of the products made with or on the basis of the information in this publication".