



PP-MB O2B301

Active Packaging Masterbatches

Description

Using nanotechnology, we have developed an oxygen barrier masterbatch to address the challenge of removing oxygen in the packaging industry to enhance the quality and shelf life of perishable products. This product serves as a cost-effective alternative to ethylene vinyl alcohol (EVOH) in the packaging of cosmetic, dairy, beverage, and food products. The presence of this product in packaging minimizes oxygen permeation and/or removes trapped oxygen inside the packaging during production, leading to increased shelf life and quality of perishable materials.

Applications

- Packaging and containers for dairy products
- Packaging and containers in food industry
- Storage containers for cosmetics, hygiene, and pharmaceutical products

Features

- Use of nanotechnology
- Significant increase in the shelf life of perishable materials by reducing or eliminating oxygen permeation
- Antibacterial property
- Economical and highly effective
- Suitable for various polymer bases (PE, PP, PET, PS, etc.)
- Low weight percentage usage: 1% to 4% in the final product
- No impact on the mechanical properties, odor, and appearance of the final product

Physical Properties

Property	Typical Value(Data should not be used for specification work)	Test Method
Melt Flow Rate (200 °C/5 kg)	12.5-17.5 g/10min	ISO 1133
OTR	5.03 – 5.5 cc.mm/(m2 day atm)	ISO 15105-1
OML	3% Acetic Acid (w/v)	INSO 13737-1,3
	Water	
	10% Ethanol (v/v)	
Heavy Metals Content	Aluminum	BS6920
	Antimony	Section 2.6

Arsenic	<1.0 (µg/L)
Boron	23.66 (µg/L)
Cadmium	<1.0 (µg/L)
Chromium	<1.0 (µg/L)
Iron	16.09 (µg/L)
Lead	3.43 (µg/L)
Manganese	1.73 (µg/L)
Mercury	<1.0 (µg/L)
Nickel	<1.0 (µg/L)
Selenium	4.56 (µg/L)

Packaging

Package options: 25kg bags

Storage

Store in a dry place away from moisture. Keep the product in cool & dry place with good ventilation. Away from the direct sunlight, high temperature, rains pour. More information on storage is found in the Safety data sheet (SDS) for this product.

Safety

Check and follow local codes and regulations! Please see our Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product. For more information, please contact our Sales Team