

MASTERBATCH**MASTERBATCH CA-BR77****PE CALCIUM CARBONATE FILLER MASTERBATCH (BREATHABLE FILM)**

This specialty filler masterbatch disperses calcium carbonate (CaCO_3) in a polyethylene carrier resin at a moderate loading selected for breathable film production, where the filler particles create a controlled network of micro-voids when the film is stretched or oriented during blowing or casting, giving a defined water-vapor transmission rate while remaining resistant to liquid water penetration.

Typical Application

- Breathable diaper backsheet film
- Breathable sheet compound (up to 100% usage)

Product Characteristics

- Specialty polyethylene carrier selected for breathable, microporous film formation
- Controlled water-vapor transmission rate on stretching/orientation
- Good blown and cast film processability
- Formulated for use at up to 100% of the film formulation

Physical Properties

Properties	Test Method	Typical Value	Unit
Calcium Carbonate (CaCO_3) Content		55	%
Carrier Resin (Specialty PE) + Additives Content		45	%

Processing Guidelines

Formulated for use at up to 100% in breathable film compounds; the finished film must be mechanically or biaxially stretched after casting/blowing to open the micro-voids around the calcium carbonate particles and develop the target water-vapor transmission rate. Confirm stretch ratio and line conditions against the target WVTR specification at order.

1. This 55% CaCO_3 loading is lower than the producer's general-purpose PE filler masterbatch (70-85% CaCO_3 , per its published brochure), reflecting the higher carrier-resin content needed for stretch/pore formation in breathable film; brochure particle-size, melt-flow, moisture and density figures for the general-purpose grade are not applicable to this breathable grade and are omitted here.

2. Full per-grade technical data and a certificate of analysis are supplied with each order.

3. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.