

MASTERBATCH**MASTERBATCH CA-E80****PE CALCIUM CARBONATE FILLER MASTERBATCH**

This filler masterbatch is a concentrated dispersion of ultra-fine calcium carbonate (CaCO_3) in a polyethylene carrier resin with processing additives. The ultra-fine particle size supports excellent film surface finish and printability even at high loading levels, offering a cost-effective solution for blown film production.

Typical Application

- PE blown film (shopping bags, garbage bags, produce bags)
- Injection molding
- Extrusion molding (pipe, bar)
- Blow molding

Product Characteristics

- Ultra-fine 1.8 micron calcium carbonate particle size
- Excellent film surface finish
- Good printability
- Suitable for high loading up to 40% in blown film

Physical Properties

Properties	Test Method	Typical Value	Unit
Carrier Resin (PE) + Additives Content		15-30	%
Calcium Carbonate (CaCO_3) Content		80	%
CaCO_3 Particle Size	Malvern Mastersizer 2000	1.8	μm
Melt Flow Index (190°C/2.16 kg)	ASTM D1238	5-40	g/10 min
Moisture	ASTM D644	< 0.12	%
Density		1.6-1.9	g/cm^3

Processing Guidelines

Recommended addition rate is 10-40% into polyethylene blown film formulations; adjust cooling and die gap to compensate for the added density at higher loadings. Supplied as 2-3 mm cylindrical granules for direct metering alongside virgin resin.

1. Particle size and calcium carbonate content are specific to this grade; melt flow, moisture, and density are typical of the producer's polyethylene filler masterbatch family.
2. Typical values per the producer's published family data; grade-specific certificate of analysis supplied per lot at 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.