

MASTERBATCH**MASTERBATCH CA-E17****PE CALCIUM CARBONATE FILLER MASTERBATCH**

This filler masterbatch is a concentrated dispersion of fine calcium carbonate (CaCO₃) in a polyethylene carrier resin with processing additives. It is engineered with a fine, narrow particle size distribution to deliver a smooth film surface and good printability, giving converters a cost-effective, high-loading filler option without sacrificing surface quality.

Typical Application

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

Product Characteristics

- Fine 2.2 micron calcium carbonate particle size
- Smooth film surface
- Good printability
- High filler loading for cost-in-use reduction
- Consistent dispersion and processability in polyethylene

Physical Properties

Properties	Test Method	Typical Value	Unit
Carrier Resin (PE) + Additives Content		15-30	%
Calcium Carbonate (CaCO ₃) Content		83	%
CaCO ₃ Particle Size	Malvern Mastersizer 2000	2.2	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 10-30% into polyethylene blown film formulations; adjust cooling and die gap to compensate for the added density. 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.