

MASTERBATCH**MASTERBATCH CA-W710****PE CALCIUM CARBONATE FILLER MASTERBATCH (WHITE OPACITY)**

This filler masterbatch combines calcium carbonate (CaCO₃) with titanium dioxide (TiO₂) in a polyethylene carrier resin with processing additives, delivering both cost-in-use reduction and enhanced whiteness and opacity for blown film. The added titanium dioxide gives a bright white appearance at loadings suited for opaque packaging film.

Typical Application

- White opaque PE blown film
- Injection molding
- Extrusion molding (pipe, bar)
- Blow molding

Product Characteristics

- Combines calcium carbonate with titanium dioxide for enhanced whiteness and opacity
- Particle size greater than 1.8 microns
- Suitable for high loading up to 40% in opaque film

Physical Properties

Properties	Test Method	Typical Value	Unit
Carrier Resin (PE) + Additives Content		15–30	%
Calcium Carbonate (CaCO ₃) Content		70	%
Titanium Dioxide (TiO ₂) Content		10	%
Filler 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 20–40% into polyethylene blown film formulations for opaque, white film; 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. Titanium dioxide content, calcium carbonate content, and particle size 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.