

MASTERBATCH**MASTERBATCH CA-B33P****PP CALCIUM CARBONATE FILLER MASTERBATCH**

This filler masterbatch is a concentrated dispersion of calcium carbonate (CaCO₃) in a polypropylene homopolymer carrier resin with processing additives, formulated for biaxially oriented polypropylene (BOPP) film. Fine, well-dispersed filler particles create the microvoids needed for a pearlescent, white opaque appearance while withstanding the stretch and orientation of the BOPP process.

Typical Application

- BOPP pearlized film
- BOPP white opaque film
- PP sheet extrusion

Product Characteristics

- Formulated on a polypropylene homopolymer carrier for compatibility with BOPP processing
- Outstanding dispersion for uniform microvoid formation in pearlized film
- Good stretchability during biaxial orientation
- Consistent processability at line speed

Physical Properties

Properties	Test Method	Typical Value	Unit
Carrier Resin (PP) + Additives Content		15-30	%
Calcium Carbonate (CaCO ₃) Content		70	%
CaCO ₃ Particle Size	Malvern Mastersizer 2000	1-3	µm
Melt Flow Index (230°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 8-15% into polypropylene formulations for BOPP pearlized and white opaque film, and for PP sheet extrusion. Supplied as 2-3 mm cylindrical granules for direct metering alongside virgin resin.

1. Carrier polymer, application, and calcium carbonate content are specific to this grade; melt flow, particle size, moisture, and density are typical of the producer's polypropylene 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.