

MASTERBATCH

MASTERBATCH CA-P75A

POLYOLEFIN CALCIUM CARBONATE FILLER MASTERBATCH

This economical, universal-purpose filler masterbatch disperses a high loading of calcium carbonate in a polyolefin carrier resin with processing additives, suited to both polypropylene and polyethylene conversion lines. It provides high whiteness and consistent dispersion at a moderate cost point, allowing significant reduction of virgin resin consumption while retaining acceptable mechanical performance.

Typical Application

- PP/PE woven bag applications at 8-20% loading
- Injection molding at 5-20% loading
- General-purpose filler for household items, sacks, and non-woven fabric

Product Characteristics

- High whiteness with good calcium carbonate dispersion and resin compatibility
- Universal carrier compatibility across common polyolefin processes
- Cost-effective replacement of virgin resin at moderate to high dosage
- Uniform 2-3 mm granule for consistent metering and blending

Physical Properties

Properties	Test Method	Typical Value	Unit
Carrier Resin + Additives		15-30	%
Calcium Carbonate Content		70-85	%
Calcium Carbonate Particle Size (Malvern Mastersizer 2000)		1-3	µm
Melt Flow (2.16kg)	ASTM D1238	30-50	g/10 min
Moisture Content	ASTM D644	< 0.12	%
Density		1.6-1.9	g/cm ³
Granule Size		2-3	mm

1. Typical values per the producer's published family data for polyolefin calcium carbonate filler masterbatch; melt flow reflects the grade-specific typical figure for this product (family range 5-40 g/10 min); test temperature is 230°C for PP carrier or 190°C for PE carrier, both at 2.16 kg load. Grade-specific certificate of analysis supplied per lot at order.

2. 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.