

MASTERBATCH**MASTERBATCH NA-P75C****PP NANO CALCIUM CARBONATE FILLER MASTERBATCH**

This filler masterbatch disperses nano-scale calcium carbonate particles in a polypropylene carrier resin and processing additives. The reduced particle size improves interfacial bonding with the matrix resin, delivering higher impact strength than conventional micron-scale filler masterbatches at comparable loadings, while retaining the whiteness and cost benefits of calcium carbonate filling.

Typical Application

- PP injection molding and extrusion at 10-20% loading
- High-impact molded parts requiring improved toughness

Product Characteristics

- Nano-scale calcium carbonate particle size for improved matrix bonding and impact performance
- High whiteness with excellent dispersion and resin compatibility
- Delivers outstanding impact properties versus conventional filler masterbatch grades
- Uniform granule for consistent metering and blending

Physical Properties

Properties	Test Method	Typical Value	Unit
Carrier Resin + Additives		15-30	%
Calcium Carbonate Content		75	%
Calcium Carbonate Particle Size		40-80	nm
Melt Flow (230°C/2.16kg)	ASTM D1238	5-40	g/10 min
Moisture Content	ASTM D644	< 0.12	%
Density		1.6-1.9	g/cm ³
Granule Size		2-3	mm

1. Melt flow, moisture, density, and granule size are taken from the producer's published family data for PP calcium carbonate filler masterbatch (family melt-flow range shown; a narrower grade-specific figure was not available); particle size reflects this grade's nano-scale filler as verified by the distributor's grade data. 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.