

MASTERBATCH

MASTERBATCH Transparent Filler

TRANSPARENT FILLER MASTERBATCH

This filler masterbatch combines inorganic mineral fillers (barium sulfate, sodium sulfate, and/or talc) with a polyolefin carrier resin and processing additives, engineered to add cost-saving filler content to transparent PE and PP film and molded structures without introducing the opacity typical of calcium carbonate fillers. Fine particle size and careful refractive-index matching preserve clarity in blown film and laminated structures.

Typical Application

- Transparent PE blown film at 5-20% loading
- Injection molding of clear or translucent parts
- Extrusion molding
- Laminated film structures (LLDPE, LDPE, HDPE, PP)

Product Characteristics

- Fine 1-3 μm particle size formulated to preserve optical clarity in transparent film and laminates
- Good dispersion and compatibility across common polyolefin carriers
- Cost-saving filler alternative that avoids the opacity of conventional calcium carbonate masterbatch
- Uniform 2-3 mm granule for consistent metering and blending

Physical Properties

Properties	Test Method	Typical Value	Unit
Carrier Resin + Additives		15-30	%
BaSO ₄ / Na ₂ SO ₄ / Talc Content		60-80	%
Filler Particle Size (Malvern Mastersizer 2000)		1-3	μm
Melt Flow (190°C/2.16kg)	ASTM D1238	5-40	g/10 min
Moisture Content	ASTM D644	< 0.12	%
Density		1.45-1.6	g/cm ³
Granule Size		2-3	mm

1. Typical values per the producer's published family data for transparent filler masterbatch; specific grade and mineral-filler loading confirmed at order. 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.