

MBTECH MICROBLEND M62

Micronized Additive Blend for White, filler Masterbatch Applications

Product Description

MBTECH MICROBLEND M62 is a fully pre-dispersed micronized powder blend designed to improve performance in white, filler, and functional masterbatches. This blend enhances nucleation, stiffness, barrier properties, and dispersion uniformity in polyethylene (PE), polypropylene (PP), and other polyolefin-based masterbatches.

Micronized Ingredient Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Micronized Talc	14807-96-6	Nucleation, stiffness, improved dispersion	40.00
Micronized Mica	12001-26-2	Barrier effect, dimensional stability	25.00
Titanium Dioxide (Rutile)	13463-67-7	Opacity, whiteness	15.00
Micronized Calcium Carbonate	471-34-1	Cost reduction, improved bulk density	15.00
Dispersible Fumed Silica	112945-52-5	Flow aid, anti-agglomeration	0.50
Micronized Polyethylene Wax	9002-88-4	Anti-blocking, dispersion aid in PE/PP matrix	4.50
TOTAL	–	–	100.00

Physical Properties

Property	Value
Appearance	Fine white to off-white micronized powder
D50 Particle Size	< 8 µm
Bulk Density	0.50–0.65 g/cm ³
Moisture Content	< 0.3%
Compatibility	LDPE, LLDPE, HDPE, PP, EVA, TPO
Shelf Life	24 months from date of production

Recommended Dosage

Use at 1.0% to 5.0% w/w in masterbatch or compound depending on the desired mechanical, visual, and barrier performance. Suitable for both single-screw and twin-screw extrusion.

Storage and Handling

Store in a cool, dry, and covered area. Reseal packaging immediately after use. Avoid direct contact with moisture or steam. Use with appropriate dust handling systems and PPE.

Packing Instructions

Packaging Format	Details
Standard Bag	10 kg PE-lined Kraft Paper Bag
Optional	5 kg double-sealed HDPE bags
Palletization	500 kg per pallet (50 bags x 10 kg)
Labeling	Product Name, Batch No, Net Weight, MFG Date, Expiry Date
Storage Condition	≤ 30°C, RH < 60%, avoid direct sunlight
