

Antiblocks for Film Applications



Specialty Minerals is a leader in providing performance enhancing minerals for films, packaging and plastics markets. Our antiblocking products are engineered to provide excellent performance in film applications to balance antiblocking and optical properties.

Features and Benefits

Films formulated with Specialty Minerals antiblock products have excellent antiblocking efficiency and provide high clarity with low haze. Our antiblock also exhibits low interactions with stabilizers, slip agents and processing aids, allowing film formulations with low coefficient of friction, excellent stability and good color. The ease of dispersion makes it suitable for use via direct addition, as a masterbatch or in high active concentrates.

Typical Applications

Antiblock products are used in films for food, packaging and bag applications such as:

- Food packaging for meats, cheese, baked goods, etc.
- Stretch and shrink films for packaging
- Grocery and trash bags
- Industrial films



Formulation Recommendations

Antiblock products are typically utilized in polyolefin films, but they can also be used for PVC films. Depending on the formulation and application requirements, typical antibloc loading levels range from 3000–7000 ppm. Optimal performance can be achieved by using antiblocks in combination with slip agents.

Typical Product Properties and Applications

Antiblock Product	Typical Properties					Product Type
	Dry Brightness (Hunter Y, Rd)	Average Particle Size (micron)	Top Size (micron)	Bulk Density (lbs/ft ³)	Specific Gravity	
ABT [®] 2500	89	3.0	14	13	2.8	Untreated
POLYBLOC [®]	89	3.0	14	13	2.8	Treated
OPTIBLOC [®] 25	89	4.0	19	22	2.7	High Clarity
OPTIBLOC [®] 10	90	2.5	12	16	2.7	High Clarity
OPTIBLOC [®] 8	90	2.5	8	13	2.7	High Clarity

Antiblock Product	Typical Applications			Typical Polymer Applications					General Performance	
	Food Packaging	Bags	General Films	LDPE	LLDPE	PP Cast	PP BOPP	PVC	Blocking	Optics
ABT [®] 2500		•	•	•	•			•	Better	Good
POLYBLOC [®]		•	•	•	•			•	Best	Better
OPTIBLOC [®] 25	•			•	•				Good	Best
OPTIBLOC [®] 10	•			•	•	•	•		Good	Best
OPTIBLOC [®] 8	•			•	•	•	•		Good	Best

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