



MB-AO

Antioxidant Masterbatch Platform – PE and PP Sub-Grades Required

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A primary/secondary antioxidant masterbatch platform intended to improve process stability and thermal-oxidative retention in virgin/reprocessed PE and PP. Applications: Film reprocessing; Re-pelletising; Moulding and extrusion compounds. Key features: Process-stability support; Reduced gel/yellowing target; Virgin/recycled polyolefin variants.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Carrier identity and MFR	FTIR + ISO 1133-1	Separate PE and PP sub-grades required	
Primary antioxidant identity/assay	Validated HPLC or supplier method	Declared per sub-grade	wt. %
Secondary antioxidant identity/assay	Validated HPLC or supplier method	Declared per sub-grade	wt. %
Moisture / volatile content	Validated method	To be established	wt. %
Dosage	Required-active-ppm calculation	Defined from final active-ppm, not a universal LDR	
OIT / melt-stability improvement	ISO 11357-6 + multiple-extrusion protocol	To be established in a named reference resin	
Gels / yellowness / MFR drift	Defined film or reprocessing protocol	To be established	

QUALIFICATION & USE

- Values are development targets, not a sales specification or certificate of analysis.
- Final limits require independent production-lot validation using the cited methods and controlled specimen preparation.
- Regulatory, food-contact, medical, UL, IEC, ATEX or OEM compliance applies only when confirmed in a grade-specific document.