



MB-W70-PE

70% Titanium-Dioxide White Masterbatch – PE
Carrier

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A high-opacity white masterbatch platform for compatible polyolefin film, sheet, blow-moulding and injection applications. Applications: Blown/cast film; Sheet and profiles; Blow and injection moulding. Key features: 70% TiO2 target; High opacity and whiteness; Broad PE-process compatibility target.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Titanium-dioxide content	Validated ash/TGA + XRF/formulation balance	70 ± 2	wt. %
Pigment identity	XRF + supplier CoA	Surface-treated rutile TiO2	
Carrier identity	FTIR + approved raw-material record	LLDPE-compatible; grade declared	
Moisture / volatile content	ISO 15512 or validated loss method	≤ 0.20	wt. %
Melt flow rate (condition to be frozen)	ISO 1133-1	To be established	
Filter pressure value	EN 13900-5 or validated equivalent	To be established	bar·cm²/g
Whiteness / yellowness / opacity	Defined reference resin, thickness and colorimetry	To be established	
Recommended let-down ratio	End-use trial	Application-specific; typically 1-5	%

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.