



MB-BK40-PE

40% Carbon-Black Masterbatch – PE Carrier

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D  
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A high-loading black masterbatch platform for colouring and UV screening in compatible polyethylene applications. Applications: Film and sheet; Pipe and conduit – application-specific approval; Moulded PE products. Key features: 40% pigment target; High jetness option; General-purpose PE compatibility.

PRELIMINARY TECHNICAL PROPERTIES

| PROPERTY / CONDITION                    | TEST METHOD                              | PROVISIONAL VALUE                      | UNIT      |
|-----------------------------------------|------------------------------------------|----------------------------------------|-----------|
| Carbon-black content                    | Validated TGA + formulation mass■balance | 40 ± 1                                 | wt. %     |
| Carrier identity                        | FTIR + approved raw-material record      | Polyethylene; sub-grade■declared       |           |
| Melt flow rate (condition to be frozen) | ISO 1133-1                               | To be established                      |           |
| Moisture / volatile content             | ISO 15512 or validated loss method       | ≤ 0.20                                 | wt. %     |
| Filter pressure value                   | EN 13900-5 or validated equivalent       | To be established                      | bar·cm²/g |
| Dispersion in defined let-down resin    | Microscopy/customer method               | To be established                      |           |
| Colour strength / jetness               | Defined reference resin and colorimetry  | To be established                      |           |
| Recommended let-down ratio              | End-use trial                            | Application-specific; ■typically 1-6.5 | %         |

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.