



# MB-UV-PE

## UV-Stabiliser Masterbatch – PE Carrier

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D  
STATUS CONTROLLED DEVELOPMENT DATA

### PRODUCT OVERVIEW

A PE-compatible UV-stabiliser product platform. HALS and UV absorber must not be combined or dosed generically; each film, rotomoulding or outdoor-part sub-grade requires a defined active package. Applications: Agricultural and packaging film; Rotomoulded products; Outdoor mouldings and profiles. Key features: Outdoor-durability platform; Low-colour option; Film/moulding variants.

### PRELIMINARY TECHNICAL PROPERTIES

| PROPERTY / CONDITION        | TEST METHOD                                                                                                                                 | PROVISIONAL VALUE                              | UNIT  |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------|
| Carrier identity and MFR    | FTIR + ISO 1133-1                                                                                                                           | Defined for each sub- <span>■</span> grade     |       |
| Active chemistry            | Supplier identity + validated HPLC and/or UV <span>■</span> absorber; exact <span>■</span> chemistry declared                               |                                                |       |
| Total active loading        | Validated assay + formulation balance                                                                                                       | To be established by sub- <span>■</span> grade | wt. % |
| Moisture / volatile content | Validated method                                                                                                                            | To be established                              | wt. % |
| Dosage                      | Active-ppm calculation + end <del>Use</del> <span>■</span> thickness, pigment, <span>■</span> climate and lifetime <span>■</span> dependent |                                                |       |
| Weathering retention        | ISO 4892-2/-3 or named application <del>■</del> met <del>■</del> To be established in final <span>■</span> formulation                      |                                                |       |
| Migration / bloom / colour  | Defined end-use 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.