

HIGH PERFORMANCE **MODI**FIER MASTERBATCH

Supreme MODIFIER Masterbatch consists of a series of innovative formulations designed to add value to a wide range of applications in Polyethylene & Polypropylene including Raffia / FIBC tapes, Mono & Multilayer films, Non woven fabrics, Extrusion Coating, Lamination, Injection molding & Blow molding and Pipes.

Features of **MODI**FIER Masterbatch

- Produced with lowest hardness CaCO₃, Low median & topcut with narrow particle distribution
- Good flow properties ensuring excellent dispersion & ease of dilution
- Low moisture content
- Available with / without Optical brighteners
- Custom formulations depending upon order quantity

Benefits of **MODI**FIER Masterbatch

Common benefits across all applications include -

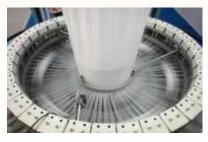
- Addition levels of 3 25%, depending upon application, reduces formulation cost
- Helps in increasing dosage of Filler MB, without compromising on mechanical properties
- Improves dispersion of CaCO₃ in the base polymer
- Reduces powder formation from the surface of tape, film or fabric
- Allows part substitution of virgin polymer with recycle / reprocessed polymer
- Reduces extruder barrel temperature by upto 10 Deg C, reducing polymer degradation
- Higher production throughputs
- Improves surface aesthetics smoothness, shine & gloss
- Improved slip resistance, facilitating winding
- Improved printability & film barrier properties
- Improved folding, creasing & sealing properties
- Reduces wear & tear of machine parts

Raffia / FIBC Tapes

- Higher tape strength due to increased Tenacity & Elongation
- Option to increase stretch ratio, thereby reducing denier & produce lighter fabrics
- Increases output of tape & loom plants
- Reduces tape breakages in tape & loom plant
- Reduces powder formation in loom, improves weaving quality
- Reduce water carryover
- Dosage of 2–10% (0.5 2.5 KG in 25 KG of PP/HDPE), keeping usual formulation unchanged

PP Non Woven Fabric

- Higher fabric strength due to increased Tensile strength & Elongation
- Fabric GSM variation is controlled
- ZERO dropping
- Provides defect free fabric & better hold on stitching
- Dosage of 4 20% (1 5 KG in 25 KG of PP), keeping usual formulation unchanged







Extrusion Coating / Paper Sandwich Lamination / Tarpaulin

- Forms uniform & permanent bond, solves problem of delamination patches
- * Excellent bonding of PP with other substrates like polymer, paper
- Dosage of 4 20% (1 5 KG in 25 KG of PP), keeping usual formulation unchanged

Mono & Multilayer Films

- Improves dart impact strength / puncture resistance & tear * strength
- In multilayer films, addition in middle layer to improve bonding * between layers
- Dosage of 2 10% (0.5 2.5 KG in 25 KG of PE), keeping ٠ usual formulation unchanged

Injection & Blow Molding

- Reduces flow lines & shrinkage in product *
- Improves drop test properties Impact strength & Break strength **
- * Reduces overall cycle time
- Dosage of 4 20% (1 5 KG in 25 KG of PP / HDPE), keeping usual * formulation unchanged

Pipes

- Reduces flow lines & shrinkage in product *
- Wall thickness variation is controlled *
- Improves mechanical properties like Impact strength & Break strength *
- Dosage of 10 20% (2.5 5 KG in 25 KG of PP / HDPE), keeping usual ٠ formulation unchanged

Regulatory Compliance

All ingredients used in the Masterbatch are suitable for food contact applications. All grades are Heavy Metal free and are compliant with RoHS regulation.

Packaging & Storage

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Material is supplied in pellet form, packed in 25 Kg laminated bags. SPL recommends storage of material in a ventilated & covered facility, protected from Moisture, Sunlight and Heat. The packing material used is not UV stabilized and hence should not be exposed to sunlight.

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