

HIGH PERFORMANCE **MODIFIER** 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 **MODIFIER** Masterbatch

- ❖ Produced with lowest hardness CaCO_3 , 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 **MODIFIER** 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 CaCO_3 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 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 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

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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