

FILLER MASTERBATCH

Supreme Filler Masterbatches consists of a series of innovative formulations designed to add value to a wide range of applications in Polystyrene (PS), Polyethylene (PE) & Polypropylene (PP) including Raffia / FIBC tapes, Mono & Multilayer films, Non woven fabrics, Extrusion Coating, Lamination, Injection molding & Blow molding and Pipes.

Salient Features

- Range of grades available in PS, PE & PP
- Produced with 100% virgin polymer
- Produced with lowest hardness CaCO₃, Low median & topcut with narrow particle distribution
- ♦ Additive package for ease of processing & surface aesthetics
- ♦ Good flow properties ensuring excellent dispersion & ease of dilution
- Excellent filterability
- Low moisture content
- Available with / without Optical brighteners
- Compliant with food contact application
- Heavy metal free, RoHS compliant
- Custom formulations depending upon order quantity

Types of Filler Masterbatches

MAXLOAD: PE based high performance filler MBs for Mono & Multilayer blown films

- ♦ Addition levels of 5 70%, depending upon film thickness & application
- Higher thermal conductivity of Calcium carbonate increases production throughputs
- ♦ Opaque white colour with BLUE undertone, thus reduces dosage of high cost White MB
- Low moisture content, thus preheating or addition of Dessicant powder is optional/minimal
- ♦ Above mentioned benefits results into lower formulation & power costs, thus saving in conversion cost
- ❖ Better bubble stability at higher line throughputs





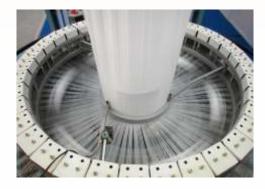
- Enhanced Antiblocking properties
- ❖ Improved slip resistance, facilitating winding
- Improved printability & film barrier properties
- Improved folding, creasing & sealing properties

MODIFIER: High performance MBs for various applications in PE & PP including Raffia / FIBC tapes, Mono & Multilayer films, Non woven fabrics, Extrusion Coating, Lamination, Injection molding & Blow molding and Pipes

- ❖ 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

TAPEFIL: PP/HDPE based CaCO₃ (Milky/Opaque) MBs for Raffia & FIBC

- Excellent Processability & Dispersion of masterbatch upto 50%
- Excellent performance upto 600 m/min line speed
- ♦ Used for PP/HDPE tapes of 350 denier & above
- Low water carryover
- Minimal tape breakage
- Low powder generation in tape & weaving plant
- High white index
- High tenacity & elongation
- Improves dimensional stability low tape shrinkage / warpage
- Improves bag stackability





FABFIL: PP based CaCO₃ (Milky / Opaque) MBs for PP Non Woven, Extrusion Coating, Paper sandwich lamination & Tarpaulin

- ❖ Excellent Processability & Dispersion, loading between 10 30%
- Suitable for PP fibres for non woven fabric & film for lamination
- Higher fabric strength due to increased Tensile strength & Elongation
- Improved control over Fabric GSM
- ZERO dropping
- Provides defect free fabric & better hold on stitching
- Forms uniform & permanent bonding, solves problem of delamination patches
- ♦ Excellent bonding with other substrates like polymer, paper





FILMFIL: PE based CaCO₃ (Milky / Opaque) MBs for LLDPE / LDPE & HDPE Mono & Multilayer film

- Excellent Processability & Dispersion of masterbatch upto 50%
- Suitable for addition in Monolayer film & in middle layer of multilayer film
- Minimal impact on film dart impact
- ♦ Better bubble stability at higher line throughputs
- Enhanced Antiblocking properties
- Improved slip resistance, facilitating winding
- Improved printability & film barrier properties
- Improved folding, creasing & sealing properties





 ${f MOLDFIL}$: PE based ${\bf CaCO_3}$ (Milky / Opaque) MBs for Injection & Blow Molding

- Excellent Processability & Dispersion of masterbatch upto 30%
- ❖ Faster cooling time, thus lower cycle time & higher productivity
- Minimal effect on top load and drop impact properties
- Improved neck finish & reduced weld lines
- Improves ESCR
- High white index & opacity
- Good surface aesthetics



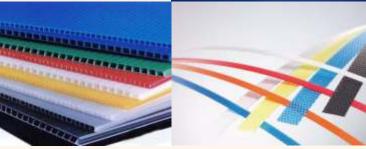




TRANSFIL: Transparent filler MBs based on PS/PE/PP for foam, tape, film, corrugated boards, straps

- Excellent Processability & Dispersion of masterbatch upto 35%
- High clarity filler
- Minimum loss of clarity at 10-15% level
- Suitable for coloured applications
- ♦ High performance nucleating agent
- Uniform cell size & distribution in foam
- Improves surface finish





STYROFIL: PS based $CaCO_3$ (Milky/Opaque) Masterbatches for injection molding and Extrusion thermoforming

- Excellent Processability & Dispersion of masterbatch upto 10%
- Faster cooling time, thus lower cycle time & higher productivity
- High white index & opacity
- Good surface aesthetics
- Lowers product cost

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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