

Polymer Processing Aid Masterbatch (Fluoropolymer)

Introduction

Polymer processing aid masterbatch containing fluoropolymer improves the processability with its versatility. It can be used for a wide variety of applications such as films, fiber, injection molding, profile extrusion, pipe/tube and cable processes.

Product Benefits

- Eliminate melt fracture during processing
- Reduce die buildup
- Enhance extruder output at constant die pressure and melt temperature
- Effective dispersion of other additives
- Improve surface finish

Polymer Processing Aid Agent

Polymer processing aid agent is formulated to form a microscopic dispersed phase within the polymer carrier. During processing the applied shear-field causes the process aid to phase separate from the carrier polymer and migrate to the die wall gradually forming a continuous layer. Once the coating is complete, the backpressure of the extruder decreases to a minimum as the differential between the surface energies of the polymer and the coating allow for reduced friction during extrusion.

Applications

- BOPP film
- Polyolefin Cast and Blown films
- Pipe/Tube extrusion
- Wire and Cable
- Compounding

Composition

- Additive: Fluoropolymer
- Carrier Resins: Polypropylene / Polyethylene

Recommended Dosage Rate

- Up to 3 wt%

Because processability and quality of applications are depended on processing conditions (temperature, pressure, speed, etc.) and applied resins, the optimum dosage rate must be determined by pre-test.