

HM10[®]Max

Calcium Carbonate Concentrates for
Polyethylene Blown Film

- Significant Savings on Raw Material Costs
- Increased Productivity
- Improved Performance



Improve Profitability, Productivity, and Performance

- ✓ Save on raw material costs: *Realized savings can range from \$0.02 - \$0.06 per pound (depending on resin costs and percentage of HM10[®] used)*
- ✓ Better bubble stability, higher outputs, increased line speeds, and easier conversion of the film
- ✓ Enhances impact, stiffness, and tear strength performance
- ✓ Improves barrier for moisture and oxygen.
- ✓ Modifies surface for improved COF, printability, weld strengths, and adhesion

Product Description

HM10[®] CaCO₃ concentrates are designed to improve the performance of polyethylene blown film applications. HM10[®] concentrates contain 76%-80% of a fine ground, surface treated CaCO₃ combined with various polyolefin carrier resins.

Products Available

- HM10[®] Max** - 80% in LLDPE carrier
- HM10[®] S series** - 80% in LLDPE carriers available with 0.5, 1, 2, and 5% added slip
- HM10[®] HD** - 76% in HDPE carrier

HM10[®] usage levels range from 5 - 40%, depending on the targeted application

What to Expect During Processing

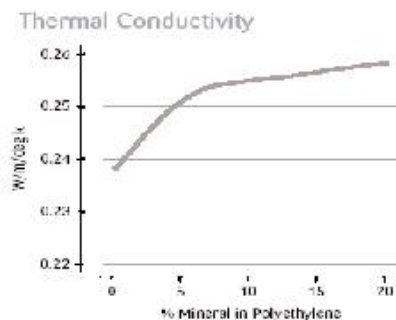
- HM10[®] requires no change in the temperature profile
- Lower extruder amps and pressures often realized due to lower melt viscosity

- HM10[®] concentrates produce a whiter appearance in un-pigmented films.
- Colored film may appear lighter - the solution involves reformulation of the color masterbatch which will allow maintaining the colorant loading level.

Productivity Gains

CaCO₃ conducts heat approximately 20 times faster than polymers alone. Increased thermal conductivity of the extrudate results in faster heating and cooling of polymer resulting in:

- > Enhanced processability and extrusion output
- > Easier handling and converting
- > Significantly increased line speeds and faster film converting times



Physical Property Improvements

- > Improves impact strength of both LLDPE and HDPE film and sheet.
- > Enhances tear strength and stiffness of film and sheet.
- > Increases seal strengths of film
- > Increased barrier to moisture and oxygen
- > Improves printability
- > Improves formability in sheet applications

HM10[®] is a registered trademark of Heritage Plastics, Inc.

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