

# PolyMax™

Calcium Carbonate Concentrates for

## Blow Molding

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



## Significant savings on raw material costs

Realized savings can vary from \$0.02 - \$0.06 per lb, depending on percentage of PolyMax™ used

## Improved Productivity

- Significantly reduced cycle times
- Improved processability, reduced amps,
- lower pressure, and higher outputs

## Better part performance

- Increased stiffness
- Improved ESCR
- Reduced warpage

## Product Description

PolyMax™ CaCO<sub>3</sub> concentrates are designed to improve the performance of blow molding applications. PolyMax™ concentrates contain 76%-80% of fine ground, surface treated CaCO<sub>3</sub> combined with various polyolefin carrier resins.

## Products Available

**PolyMax™ LC** 80% CaCO<sub>3</sub> in LLDPE  
to balance cost & performance

**PolyMax™ HD** 76% CaCO<sub>3</sub> in HDPE  
to maximize stiffness and top load

Typical usage levels of PolyMax CaCO<sub>3</sub> concentrates: 10-20% depending on targeted application.

PolyMax™ is a trademark of Heritage Plastics, Inc.

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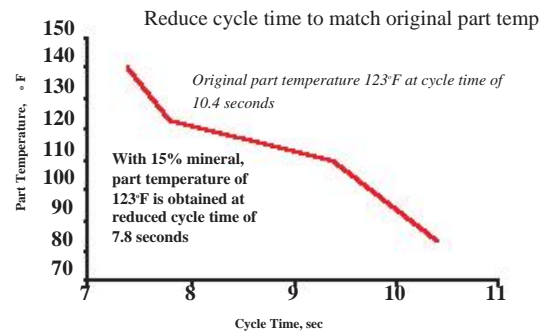
## What to Expect During Processing

No temperature changes are needed. Lower extrusion amps and pressure are often experienced due to lower melt viscosity. Minor adjustments to the shot size may be required to compensate for extended parison. Final part appearance will be relatively unaffected:

- > Un-pigmented parts will appear uniformly white
- > Colored parts may require reformulation of the color masterbatch
- > PolyMax concentrates can be added using standard additive feeders

## Productivity Gains

A major advantage of PolyMax™ concentrates is their ability to increase the thermal conductivity of the part in blow molding processes. Addition of mineral results in cooler parts; cycle times are reduced, sometimes by as much as 30%. The final bottle or part will have significantly less warpage even at the reduced cycle time.



## Physical Property Improvements

PolyMax™ increases part density based on the loading level. Part weight should be maintained to maximize material cost savings. The reduction in wall thickness required to maintain part weight is 5-11% depending on the usage level of PolyMax™. This will result in:

- > Impact and top load strength unaffected
- > ESCR improved (Stress Crack Resistance)
- > Part will feel stiffer
- > Warpage reduced



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