

PolyMax™

Calcium Carbonate Concentrates for **Blow Molded Pipe**

- 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 CaCO₃ concentrates are designed to improve the performance of blow molding applications. PolyMax™ concentrates contain 80% of fine ground, surface treated CaCO₃ combined with various polyolefin carrier resins.

Products Available

PolyMax™ LC 80% CaCO₃ in LLDPE
PolyMax™ HD 76% CaCO₃ in HDPE

Typical usage levels of HM10 Max™ CaCO₃ concentrates: 10-20% with 15% in pipe typical

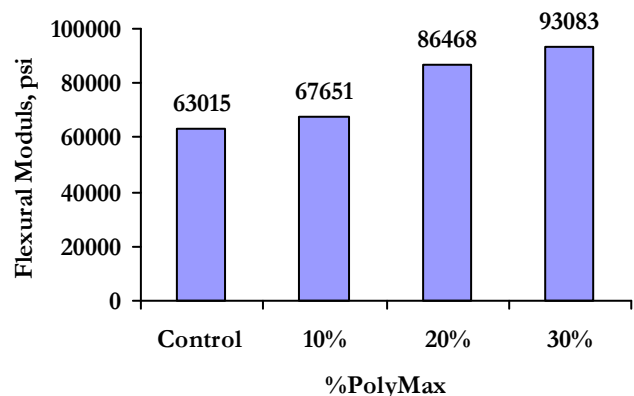
What to Expect During Processing

No temperature changes are needed. Lower extruder amps and pressure are often experienced due to lower melt viscosity. Minor adjustments to output or line speed may be required to compensate for increased pipe weight. Final part appearance will be relatively unaffected:

- > Surface gloss will be diminished
- > 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 pipe in the extrusion process. This allows higher outputs, allowing faster pipe production to maintain the pipe weight.



Physical Property Improvements

PolyMax™ increases pipe stiffness allowing the needed reduction in wall thickness to maintain pipe weight. 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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