

# HiCal™ and HM10®

Calcium Carbonate Concentrates for  
**Injection Molding**

- Higher Stiffness and Impact Strengths
- Increased Productivity
- Reduces Warping



## Improved performance

- Productivity – Faster cycle time, higher outputs
- Dimensional Stability – Less warping and reduced shrinkage
- Final Product – Higher impact, increased stiffness, lower CLTE, and improved ESCR

## Product Description

HiCal™ and HM10® concentrates contain up to 80% fine ground, surface treated CaCO<sub>3</sub> in various polyolefin carriers: PP (HiCal), HDPE and LLDPE (HM10).

- > CaCO<sub>3</sub> concentrates are able to reduce the raw material cost of injection molding applications currently using filled or press ready compounds.
- > New molds can be designed for the use of mineral concentrates. Advantages - cost and performance.

## Products Available

- HiCal™ LC > 80% CaCO<sub>3</sub> in PP
- HM-10® Max > 80% CaCO<sub>3</sub> in LLDPE
- HM-10® HD > 76% CaCO<sub>3</sub> in HDPE

## What to Expect During Processing

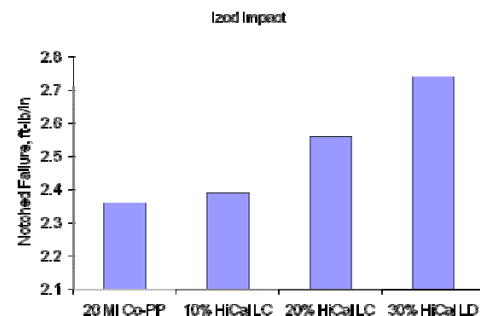
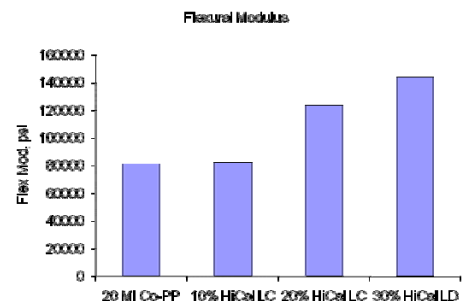
1. No changes in the temperature profiles are required.
2. Lower extruder amps and pressures are often realized as a result of lower melt viscosity.
3. Color concentrates are added separately to the injection molding process and the final part appearance is relatively unaffected:
  - Un-pigmented parts will appear uniformly white
  - Deep colored parts may require reformulation

## Physical Property Improvements

- ✓ HiCal™ concentrates are designed to produce parts that are equal to the physical properties of current filled PP compounds.
- ✓ HiCal™ and HM10® are designed to achieve full dispersion and distribution of CaCO<sub>3</sub> particles during injection molding processes.
- ✓ Increased impact strength and stiffness are possible with the reinforcing effects of CaCO<sub>3</sub> concentrates.

## Raw Materials Savings

- For products based on a formulated, press ready compound, changing to a HiCal™ or HM10® concentrate can provide significant savings.
- Use of HiCal™ and HM10® in resin only systems can provide additional productivity and performance improvements.



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