

SmartMini



Technology designed to provide highly loaded solid masterbatch to allow for very low usage rates and fast color change-over.

Summary

With SmartMini technology, Ampacet combines pigment, carrier resin, mixing, pelletizing, and feeder technologies to enable our customers to color their products in the most cost-effective manner possible. Extremely high pigment loadings lead to very low usage rates, resulting in lower inventory levels and reduced costs to color a plastic part. Coupling this technology with Ampacet's unique access to fast color-change pigments results in an optimized extrusion paradigm.

Pigment Selection & Loading Cost Savings Pellet Size Feeders

Product Overview

Addresses four critical processing challenges:

- Quick color change-over
- Lower colorant usage
- Quick melting for fast pigment dispersion and distribution
- Proper metering of very low LDR formulations

Quick Color Change-Overs

- Propriety pigment technology that reduces change-over times by 30% to 80%.
- Preventive solution vs. extensive purging
- Lower staining and less build-up than normal pigments





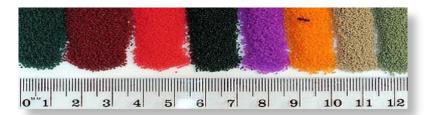
Lower Colorant Usage Levels

- Technology to allow for highly loaded colors to be formulated to reduce LDRs.
- Colors at 2% LDR can potentially be formulated well below 1% LDR, which provides well over a 50% reduction in masterbatch use.
- Translucent and semi-translucent colors can be formulated at LDRs between 0.1% 0.8%.



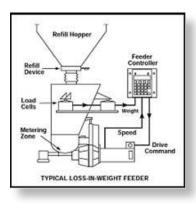
Quick Melt Pellets

- Technology to produce Mini Pellets allows for a faster melt in the extruder (greater surface area of the pellet).
- Faster melt equates to better dispersion or distribution of the color with the base resin.



Metering

- Pellet size can be customized depending upon process, resin type, and LDR desired.
- Wide availability of feeders able to accurately meter masterbatch at very low LDRs.



Other Benefits:

- No special handling required, clean work environment
- Highly dispersed pearls and effects, no settling issues
- No special training required
- Suitable for small lot production
- No screw slippage that can cause production delays
- Greater than 12 month shelf life, no suspension issues required stirring
- No hazardous waste to dispose of or need to return drums.
- Cost effective for both opaque and translucent colors
- No delamination issues

For more information on **SmartMini**, its uses and complete Regulatory Status, contact your Ampacet Account Executive or visit **www.ampacet.com**.

The information and recommendations contained in this document are based upon data collected by Ampacet and believed to be correct. However, no warranty of fitness for use or any other guarantees or warranty of any kind, expressed or implied, is made to the information contained herein, and Ampacet assumes no responsibility for the results for the use of products and processes described herein. No liability whatsoever shall attach to Ampacet for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the applications, processing or use of the aforementioned information or products by the buyer.



Ampacet Asia: Eastern Seaboard Industrial Estate (Rayong), 64/19 Moo 4, Highway 331, Pluakdaeng, Rayong 21140