



New Bio-Compostable Color Masterbatch for “Difficult to Recycle” Parts

Chroma Color’s customer was looking for a partner to come up with a color masterbatch using a PHA (polyhydroxyalkanoates) biobased polyester that would comply to ***ASTM D-6400/*DIN EN13432** Bio-Composting standards.

The Chroma Color Technology team was able to develop three new colors for our customer using a specifically designed carrier resin for a masterbatch:

41OR0001SC41CO-F **Orange 50/1**
41RD0001SC41CO-F **Red 50/1**
41WH000141CO-F **White 50/1**

****ASTM D6400 outlines the standard requirements for the biodegradation of solid materials through composting, specifically tailored for labeling plastics intended for aerobic composting in municipal or industrial settings.***

****DIN EN 13432 specifies the requirements and procedures for determining the compostability and aerobic treatability of packaging (and its materials).***

About: PHA’s are a family of biobased and biodegradable polyesters made by bacterial fermentation.

PHACT biopolymers were chosen for this project are plant-based and feature a sustainable manufacturing process. Alone or when blended with other polymers, they dramatically improve environmental characteristics while enhancing physical properties in a broad range of consumer applications.

This material is considered to be thermally stable in the normal and customary processing range of 185-200 C°. Extended polymer and concentrate residence time in the process equipment may require that process temperature profiles be reviewed and/or adjusted to insure a proper and suitable product.

For more information
<https://chromacolors.com>