

TM

# Color ing Plastics

Simplified  
Color  
Solutions

AMPACET  
Plastics Reimagined™





## **RediBatch**

A new universal approach to color selection.

Highly loaded RediBatch masterbatches use a universal carrier that's compatible with the most popular polymers. It's ideal for short runs of specific colors no matter which polymer system you use.

[Click here to see the full palette of available RediBatch colors](#)

**Simplify color inventory** No need to stock dedicated colors for each polymer.

**Improve speed to market** Buy direct from Ampacet for faster order processing.

**Increase flexibility** Compatible with all of the most popular resins.

**FDA approved** All RediBatch colors, blacks and whites are FDA approved\*.

**Buy from a trusted source** A global leader in masterbatch quality, selection and service for nearly 100 years.

\*Contact [regulatory.northamerica@ampacet.com](mailto:regulatory.northamerica@ampacet.com) to ensure suitability for your application.

**For inquiries:** [www.ampacet.com/  
masterbatch-products/core-product/redibatch/](http://www.ampacet.com/masterbatch-products/core-product/redibatch/)



## Resin Flexibility

RediBatch allows processors to purchase small quantities of colors that can be added to a wide variety of polymers, giving them more flexibility and faster speed to market.

## Pigment and Polymer Compatibility

All RediBatch colorants are free of heavy-metal pigments and perform well with a wide range of polymers under most processing conditions. While RediBatch is compatible with most polymers, it should not be used with cellulosic polymers and transparent acrylic colors.

## Regulatory

All RediBatch colorants are expected to be FDA acceptable food contact compliant. Detailed statements regarding allowed use, any limitations and regulatory status are available upon request. We strongly recommend that you check with your Ampacet representative before you consider using RediBatch in a pharmaceutical, cosmetic or medical application. For additional regulatory details:

[Regulatory.NorthAmerica@Ampacet.com](mailto:Regulatory.NorthAmerica@Ampacet.com)

## Color Strength and Opacity

All RediBatch masterbatches are designed to provide consistent color for any compatible polymer. RediBatch colorants offer the high tint strength of organic pigments with the opacity of inorganics. The hiding power of these formulations should be tested in all opaque and filled polymers before starting production. Each color formulation should be evaluated in production conditions to verify suitability.

## Recommended Processes

RediBatch masterbatches are ideal for injection molding, blow molding, and profile and sheet extrusion applications. They perform well with polymers such as ABS and nylon that require drying before processing. If the drying temperature exceeds 225°F (107°C), add RediBatch only after the drying is completed. If you have questions about temperature limits, contact your Ampacet representative.

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masterbatch-products/core-product/redibatch/](http://www.ampacet.com/masterbatch-products/core-product/redibatch/)





## Assuring Color Consistency

RediBatch and the polymer should be thoroughly premixed with tumble mixers or colorant metering equipment to assure consistent color throughout the production run. We recommend using [LIAD Smart technology](#) from Ampacet such as ColorSave® 1000, ColorSave® Micro or DualSave® feeders for the most precise dosing.

## Optimizing Processing Equipment

The plasticizing capability of processing equipment should be evaluated to ensure the most efficient production. You may need to make one or more of the following adjustments:

- Increase back pressure
- Reduce screw speed
- Raise the temperature in the middle zone of the barrel
- Cool the feed zone of the barrel to prevent premature melting

## Recommended Temperatures

Each polymer has an ideal temperature range. It is recommended that melt temperatures do not exceed 600°F (316°C) when using any RediBatch.

Maximum Processing temperatures for each product are conveniently listed on the Ampacet website ([Ampacet.com/redibatch](http://Ampacet.com/redibatch)).

## Light Fastness and Weatherability

RediBatch offers a wide range of masterbatches that meet most requirements for light fastness defined by the Blue Wool Scale. RediBatch formulations do not contain UV stabilizers, so UV stabilization for outdoor applications will require a tailored additive formulation. If weatherability is important, you should discuss the specific application and requirements with your Ampacet representative.

## Flame Retardant and UL Compatibility

The high additive content of flame retardants limits the range of recommended RediBatch colors. Adding pigment and carrier may affect the UL rating, so RediBatch is not recommended for UL applications. If you have questions about flame retardant or UL compatibility, contact your Ampacet representative.

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## **Processes**

Blow molding  
Compounding  
Film extrusion  
Injection molding  
Profile extrusion  
Sheet extrusion  
Tubes

## **Recommended Addition Rates**

Polyethylene 1%  
Polypropylene 1%  
GP Polystyrene 1%  
HI Polystyrene 1-2%  
Acrylics (Opaque) 1%  
PBT Polyester 1%  
PET Polyester 1%  
Polyurethane 1-2%  
Polyamide (Nylon) 1%  
Acetal 1%  
SAN 1%  
ABS 1-3%  
PVC 1-3%  
Polycarbonate 1%  
Thermoplastic 1-3%  
Alloys and Blends 1-3%  
EVA 1%  
Filled Polymers 1-3%

These low let-down ratios effectively reduce the overall cost to color.





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