

Colour Tone Masterbatch develop and produce technically advanced, high quality, custom colour and performance masterbatches.

Using our knowledge and experience and the latest colour matching, blending and compounding equipment, we manufacture:

- Polymer specific / Engineering polymer masterbatches
- Universal masterbatches
- Special effect masterbatches
- Multifunctional masterbatches
- Heat reflective masterbatches
- Flame retardant masterbatches
- Additive masterbatches

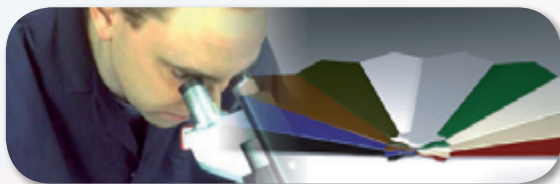


Polymer specific masterbatch can be pre-dried with the host polymer and may be added at high loadings without compatibility problems. Colour Tone have successfully produced polymer specific and engineering polymer masterbatches in many materials including ABS, PA, PC, PE, PET/PBT, PMMA, POM (acetal), PS, PVC and TPR. Two notable developments include Vynacol, a polymer-specific colour masterbatch for rigid PVC that makes it as easy to colour PVC as any other plastic material, and a highly filled PET masterbatch for the cost effective colouring of white thin wall polyester packaging products.



Special effect masterbatches include pigments or fillers to achieve different visual effects such as marble, metallic, phosphorescence, glitter, fluorescence, wood or granite. Colours that change under the influence of temperature or ultra-violet light can also be produced.

Multifunctional masterbatches contain colour and carrier as usual but, more importantly, also incorporate additives that enhance the process or the end product in a variety of ways. Most are polymer specific and their purpose is to optimise manufacturing processes and/or to adjust the physical and chemical properties of the polymer to suit the requirements of a particular end use.



Heat reflective masterbatches feature infrared heat reflective colouring technology. Proven in PVCu compounds these masterbatches are now available in other materials. They are particularly suitable for outdoor applications where they reduce product temperatures by as much as 40% compared to plastics coloured with conventional pigments.

Additive masterbatches deliver specific product or processing enhancements. The most popular applications are UV protection, flame retardant, antistatic, slip, antioxidant, antimicrobial and process aids such as blowing agents or mould release. We can produce an additive masterbatch to suit your application. Just tell us what benefits you are looking for and we will formulate a masterbatch to meet your needs.



Universal masterbatches are cost effective when used correctly. We can manufacture these widely used products in virtually any colour. While they are suitable for use in many polymers compatibility issues can arise when they are used in certain materials and engineering polymers that require pre-drying.



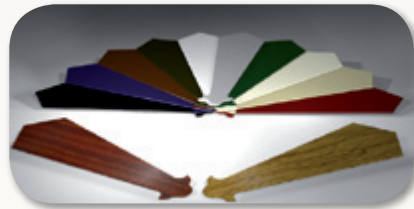
Colour PVC without constraints

Vynacol has revolutionised the colouring of PVC. It makes PVCu as easy to colour as any other polymer because



it eliminates all the compatibility and processing issues historically associated with adding colour to PVC.

After a decade Vynacol remains the world's leading polymer specific colouring system for PVCu. This patented technology delivers limitless colouring opportunities. It provides brilliant, vibrant colours, special effects, superior finish and enhances physical properties. With Vynacol there is no need to compromise on colour, product performance or processing.



PVC products coloured with Vynacol masterbatches incorporating the latest heat reflecting infrared pigment technology

exhibit product temperatures up to 40% lower than those coloured with conventional pigments. Products coloured with conventional pigments fade, especially darker shades. Also, retained heat causes thermal expansion and physical degradation which leads to buckling. Eventually products fail, for example, because joints and seals on guttering shift out of line and leakages occur.



Benefits

- Easy to use, reliable
- Offers cost advantages
- Enables flexible production procedures
- Improves processing, surface finish, gloss and impact strength
- Can be tailored to include functional additives such as antistatic or UV protection
- Meets International standards for food and toy products, packaging, automotive, electrical appliances etc
- Can include infrared heat deflecting pigments
- Produced in conventional pellet for mixing with precompounded PVCu and in prill form to suit dryblend processes
- Compatible with all volumetric and gravimetric dosing systems
- Pre-compounded Vynacol carriers offer new business opportunities by allowing masterbatch manufacturers to produce their own Vynacol masterbatches
- Can be used with coloured recycled polymers

Colour Tone Masterbatch Limited

Set up in July 1996 Colour Tone Masterbatch is an established and highly successful business recognised as an innovative, technically competent, company that focuses on delivering a responsive, high quality service.

The company's masterbatch materials are suitable for use in most plastics processes including injection and blow moulding, profile and sheet extrusion as well as film and fibres. As such they add market presence and competitive edge through unique, vibrant colours as well as physical properties and processing benefits that contribute to the successful performance of many products.

Colour Tone's laboratory facilities and modern plant provide the flexibility to develop new products, meet customer demands for colour matching and sampling through to repeatable quality manufacture.

Quality

Our processes and manufacturing procedures are tightly controlled. We are registered to BS EN ISO 9001:2008 and employ highly qualified and experienced colourists who use the latest Konica-Minolta computer colour matching systems to analyse colours and fast track the development of trial formulations.

Our manufacturing lines feature modern Leistritz twin screw extruders, some with 'state-of-the-art' barrel segmentation options and custom designed Gala die face cutting equipment that enables us to tailor pellet geometry to suit customers' end use requirements. We can produce micro pellet, prill and granular product in various sizes and shapes.

Awards

Colour Tone Masterbatch has won several awards including Welsh Innovative Company of the Year and Caerphilly Business of the Year.