COLORMATRIX™
ULTIMATE UV390
UV absorbing additive technology
with broadband protection
Technical description
UV light can degrade some colored dyes in plastics and can cause reactions in UV sensitive food and beverages that result in changes in taste, odor and texture. Ultimate UV390 provides an effective UV barrier allowing less than 10% UV light transmission up to 395nm—the edge of the visible spectrum (see graph below).

Applications
Ultimate UV390 can help extend shelf life for UV sensitive food, beverage, personal care and home cleaning products packaged in a wide range of thicknesses of PET containers.

Regulatory information
Ultimate UV390 is suitable for use under EU and FDA food contact legislation. Full regulatory details for your region are available on request.

Handling
Ultimate UV390 is supplied as a liquid dispersion which offers convenient, accurate and consistent dosing from minimal product addition.
A cost-effective, easy-to-use solution
As a liquid dispersion, a high level of dosing accuracy can be achieved with Ultimate UV390 making it a highly cost-effective solution. As it is dosed directly into the machine, it is also easy to process and control, with excellent shot-to-shot consistency, and eliminates mold plate-out which can lead to downtime issues.

Good clarity and recyclability
Ultimate UV390 dosing is highly consistent offering excellent part clarity with a superior aesthetic. It has no negative effect on recyclability, physical performance characteristics or color of the recycled material.

Optimized product protection
Ultimate UV390 used in combination with ColorMatrix colors can offer enhanced light protection into the visible range, particularly relevant to vitamin enhanced products. Protection up to 575nm is possible, whilst also maintaining transparency.

Brand assurance
Consistent product integrity is vital to maintaining brand image. ColorMatrix works closely with customers to model usage rates and to ensure that dosing of Ultimate UV390 is optimized and product protection is assured for the required life of the product.

Global formulations
Ultimate UV390 is formulated for global use and can be used in combination with other ColorMatrix colorant and additive formulations.