



IMPORTANT FEATURES

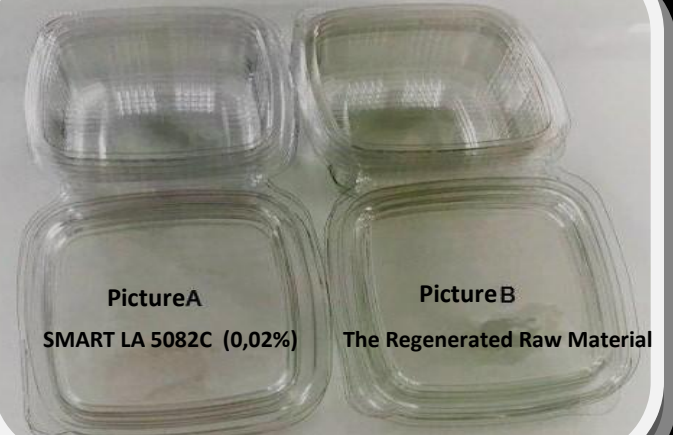
- MORE TRANSPARENT PRODUCTS
- MORE BRIGHT SURFACE
- LOW DOSAGE
- LOW COST
- POSSIBLE TO USE MORE REGENERATED MATERIAL



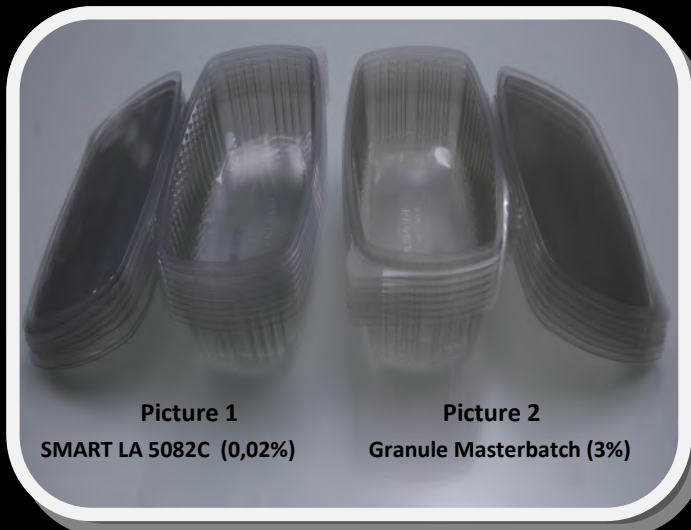
ANTI YELLOW AGENT

SMART LA 5082C

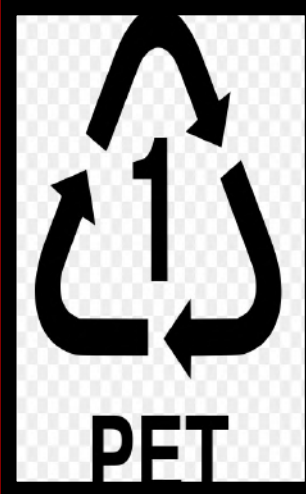
The world's limited resources cannot meet the needs of the population that is close to 8 billion. The whole world has rolled up to stop this dangerous journey. Countries focusing on recycling are developing a 'reuse – recycle' approach instead of 'single use'. Therefore, the recycling of PET, which is used in many areas of our lives, is of great importance for our environment and our producers. Repeatedly used PETs have been heat treated several



times during production, and the final product produced by the regenerated raw material is observed by producers and customers, as seen in Figure B and Figure 3, as they were yellowing or greening. At this point, when you use the **ANTI YELLOW AGENT: SMART LA 5082C**, which is used at a



very low rate and separated by a sharp difference, the color change as in Picture A and Figure 1 is shown. Figure 2 shows a PET container made of film which is tried to be transparent by using granule masterbatch with very high ratio (3%).



“ANTI YELLOW AGENT CAN BE PRODUCED IN DIFFERENT COLOR SHADES ”



Picture 3

Picture 4

Picture 5

Picture 3: Produced using only regenerated raw material (pure).

Picture 4 : Produced by adding 3% (three percent) granular masterbatch to the regenerated raw material.

Picture 5 : Produced by adding 0,02% (two in ten thousand) SMART LA 5082C into the regenerated raw material.

Picture 3 shows only PET containers made of regenerated raw materials, PET containers produced by masterbatches in **Picture 4** and PET containers produced with **SMART LA 5082C** in **Picture 5**. The average use rate of **SMART LA 5082C** is 0.02% (two in ten thousand). This usage rate may vary according to the quality and structure of the regenerated raw material as in **Picture 6** and **Picture 7**. **SMART LA 5082C** allows you to use more regenerated raw materials in your production. With the **ANTI YELLOW AGENT SMART LA 5082C**, you can achieve a brighter, more transparent and different shade product, available in different versions.



Picture 6 PET FLAKE



Picture 7 PET FLAKE

REGULATORY INFORMATION

Our company can formulate custom color masterbatch in accordance with a number of regulatory guidelines; **MSDSRequest** 2D Chemicals can provide a MSDS upon request for any color masterbatch produced. To request a MSDS, please contact us. **Bisphenol A** We can formulate masterbatches and certify that the product is free of intentionally added Bisphenol A (BPA). **Deca BDE** We can formulate masterbatches and certify that the product is free of intentionally added Decabromodiphenyl ether (DecaBDE). **EU Food Contact Compliance** We can formulate masterbatches and certify that the pigments, additives and polymers in the product comply with EU Directive 2002/72/EC relating to plastic materials or articles intended to come into contact with foodstuff. **EU Packaging Directive** We can formulate masterbatches

and certify that the product complies with European Directive 94/62/EC on packaging and packaging waste. **FDA** We can formulate masterbatches and certify that the pigments, additives and polymers in the product comply with the appropriate section under Title 21 of the Code of Federal Regulations for their intended conditions of use. **Phthalates** We can formulate masterbatches and certify that the product is free of intentionally added phthalates. **REACH-SVHC** We can formulate masterbatches and certify that the product complies with REACH regulations regarding Substances of Very High Concern (SVHC). **RoHS** We can formulate masterbatches and certify that the product complies European Directive 2002/95/EC – RoHS. Restriction of Certain Hazardous Substances.



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2D Chemical, develops, produces and sells colorants and additives for the plastic industry. Our ruling principal is to work with leading and best raw material manufacturers and suppliers in the world that can meet our different and professional vision.

Our industry knowledge and experience is for more than 20 years and we believe customer-oriented company aims to have maximum customer satisfaction.

We have modern manufacturing techniques that gives us flexibility for small batch orders as well as large orders.

2D Chemical cares about innovation, it takes quality as its philosophy of life and grows with its customer and partners by increasing market value and profitability.

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