



## IMPORTANT FEATURES

- CAN BE PRODUCED IN DESIRED COLORS
- EXCELLENT OPAL APPEARANCE
- DOES NOT CONTAIN ANY KIND OF SOLVENT
- SUITABLE FOR INJECTION MOLDING AND EXTRUSION
- PERFECT DISPERSION AT LOW CONCENTRATION



## LIGHT DIFFUSOR SMART LM DF 9361A

The developments in the lighting sector, especially the more widespread of LED lights, increase the importance of light diffuser. The light diffuser prevents eye fatigue by improving its output with minimum loss in light efficiency, for instance by controlling light diffusion. The light diffuser can be varied not only in white shades but in desired colors. You can see some examples of them in picture-3 and image-5. The heat stability of the **SMART LM DF 9361A** is 300 ° C. The recommended use rates of our white viscose and polymer based additives are between 0.5% and 1.5%

and vary according to the type of raw materials used. It is Compatible with PC, PMMA, SAN, GPPS, transparent ABS raw materials.



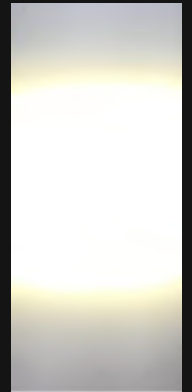
The following illustrations show the luminaire profiles of **SMART LM DF 9361A (light diffuser)** which are used in different proportions.



SMART LM DF 9361A used at %1,25



SMART LM DF 9361A used at %1



SMART LM DF 9361A used at %0,8





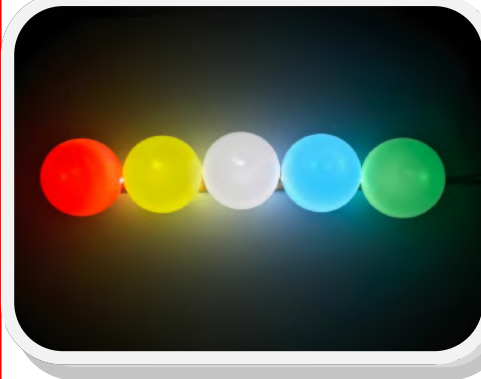
picture—1



picture—2

The pictures show opal materials made of polycarbonate and polystyrene. Opal materials can be used not only for illumination but also for visualization of products in many areas. For example, the ice bucket in Figure 2.

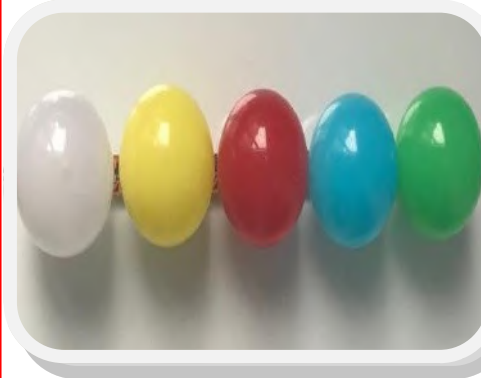
**“LIGHT DIFFUSER  
SMART LM DF 9361A  
CAN BE PRODUCED  
WITH DESIRED CO-  
LORS“**



picture—3



picture—4



picture—5

SMART LM DF 9361A; Thanks to the light-dispersing pigments used in led lighting, it provides outstanding light distribution. In this way, it is suitable for all kinds of light transmittance applications such as lighting products, ceiling windows, greenhouse walls, signs, billboards used in buildings. Light diffusers can be used in places where daylight should not be



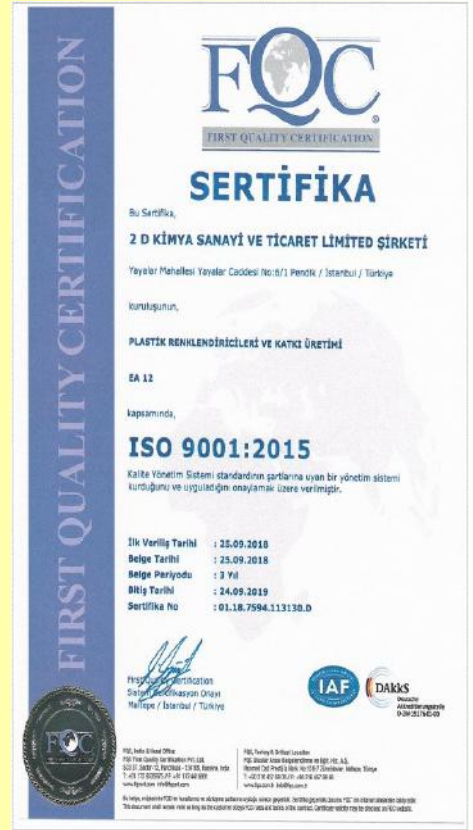
picture—6

hit directly in greenhouses as in picture-4. At the same time, it is available as in picture-1 and picture-6 for energy saving on factory roofs. SMART LM DF 9361A ensures homogeneous distribution even at low rates (eg 0.5%), and can be produced in any color as shown in Picture-3 and Figure-4. While the light diffusers are colored in many areas, this will help you to have a wider range of markets.

# 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.



INFORMATION IN THIS BULLETIN ARE BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, IT IS PROVIDED WITHOUT ANY WARRANTY AND SHALL BE USED ONLY AS A GUIDE.

*Catch the Future's Innovation  
Today with SMARTLC&A® ...*

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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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