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Technical Data Sheet

Photochromic material series

Product name: Photochromic MC Pigment #41 New Orange

Item number: UV-PDF-2141

Introduction：

UV-PDF-2141 is one of our photochromic products. The color of **UV-PDF-2141** will become orange when it irradiates by UV light, and change back to colorless after removing the UV light.

UV-PDF-2141 is micro-capsulated product. The diameter of **UV-PDF-2141** is between 1 to 10 μm, and its appearance is color or colorless powder.

UV-PDF-2141 can be used in many industries, such as Ink, Paint, Plastic… and so on. Basically, **UV-PDF-2141** can be used as pigment.

Appearance：

UV-PDF-2141 is slight-orange powder at normal situation, and becomes orange powder under the radiation of UV light.

Storage：

UV-PDF-2141 should be kept in a dry place under room temperature and do not expose to sunlight.

Toxicity& Safety：

UV-PDF-2141 has passed the EN-71 and ROHS test.

Application in Ink & Paint：

- **UV-PDF-2141** can disperse in ink and paint.
- **UV-PDF-2141** can apply in both oil and water type resin.
- Proper PH value of selected substrate for **UV-PDF-2141** is 7-9.
- Suggested usage of **UV-PDF-2141** is 3%~30% (w/w).
- **UV-PDF-2141** is suitable for screen ink.
- Suggested printing backgrounds are white or light color series.
- **UV-PDF-2141** can be applied as pigments.
- Choose proper resins or bases when use **UV-PDF-2141** on different substrates.

Application in Injection & Extrusion：

- **UV-PDF-2141** is suitable for many resins, such as PP、PE、PVC、PU、PS、TPR、EVA、PMMA.
- Suggested usage of **UV-PDF-2141** is 0.2%~5.0% w/w.
- Use master batch if necessary.
- **UV-PDF-2141** can be used with other pigments.
- Avoid using **UV-PDF-2141** above 230℃.
- **UV-PDF-2141** has higher heat and UV resistance when add proper light stabilizers (NCC LS-UV Series) and anti-oxidants (NCC AO Series).