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| **STANDARD OPERATING PROCEDURE**  Optical Brightener Testing |

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## Purpose

As plastic material changes its colors when expose to the sunlight. To give better appearance to the colors OB is added to the master batch to increase the brightness and luminous of the system. The purpose of testing the OB is to ensure the better brightener for the system which is cost effective and efficient for us.

## Scope

This test method covers the determination of the OB effectiveness in UV light.

## Responsibilities

Trainee Engineer- REC/ Lab Engineer

## Procedure:

1. Heat OB sample at 220o C for 10 minutes.
2. Make chip on two roll mill i.e. 1.0g OB, 49.0g polymer.
3. Make its tint also. i.e. 0.02g OB, 5g TiO­2 & 44.98g polymer.
4. Put these chips in to the UV light.
5. Check which is brighter.
6. Brighter the chip better will be the OB.

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## Associated Documents and Records

* Shade Card

**AMENDMENT HISTORY**

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| --- | --- | --- | --- |
| **REV. #** | **DCR#** | **SECTION** | **AMENDED TEXT** |
| 1 |  | 4 | 1.0g OB, 49.0g instead of ~~0.1g OB, 49.9g,~~ 0.02g OB, 44.98g Polymer instead of ~~0.1g OB, 44.9g Polymer~~ |
| 1 |  | 4 | Heat OB sample at 220o C for 10 minutes. |
| 1 |  | 5 | Shade Card |

\* All changes made in the document are notified in the Amendment History Table.