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| **STANDARD OPERATING PROCEDURE**  WAX Testing |

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## Purpose

## The purpose of testing the wax is to check its dispersion properties and also check the time required for complete dispersion of the master batch in to the polymer matrix.

## Scope

This test method covers the determination of the dispersion time of master batch and dispersion efficiency of the wax. From which we can make our system more efficient by reducing the time of dispersion.

## Responsibilities

Trainee Engineer- REC/ Lab Supervisor

## Procedure:

1. First of all make the master batch of sample wax and STD wax.
2. Then take master batch 1g and polymer 49g and make a chip on two roll mill.
3. Make their thin film also.
4. Check out the spotting ratio and dispersion from thin film on a light box.
5. For checking comprehensively make its tint. Then compare the strength of the STD tint vs. Sample tint.
6. If the dispersion of sample wax and the strength of color is more than the STD. then the sample wax is considerable.

## Associated Documents and Records

* Shade Card
* Testing of additives

**AMENDMENT HISTORY**

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| --- | --- | --- | --- |
| **REV. #** | **DCR#** | **SECTION** | **AMENDED TEXT** |
| 1 |  | 5 | Shade Card, Testing of Additives |
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\* All changes made in the document are notified in the Amendment History Table.