

# PPRM Best Practice Document for Trimellitic anhydride (TMA) analysis

This document is related to analysis of free trimellitic anhydride (TMA) in polyester powder resins. The purpose of this document is to describe the best practise procedure as agreed by member companies as of Nov. 2018.

## DISCLAIMER

This document represents voluntary guidance for polyester powder resins manufacturers and their customers, and the contents should not be interpreted as regulatory requirements. Alternative approaches than those described here may also be used.

## METHOD

The general recommendation is to make the measurement using HPLC methodology. No further details of the method are given.

## SAMPLE TAKING

The sample for analysis should be taken after flaking in production.

## SAMPLE TYPE

The sample should be in the form of flakes.

## AGE OF SAMPLE

The sample should be analysed within 1-2 weeks after sampling.

## SAMPLE STORAGE

The sample should be stored in an airtight container until analysis is started. The airtight container could be a vacuum-sealed plastic sheet, or a sample jar with a minimum and constant volume of air above the flakes.

## SAMPLING FOR ANALYSIS

The sample should be analysed within 1 hour once the closed packaging is opened.

## SAMPLE PREPARATION

The sample should be analysed as flakes. No grinding/crushing recommended.

## STATISTICAL ANALYSIS

In order to set an upper limit it is recommended to analyse a minimum of 5-6 samples and calculate the 2 sigma. The upper limit should be the average plus 2 sigma.

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