

OP-8-221

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SENSITIVITY OF COLOURS IN COMPOUNDING OF PLASTICS TO MINUTE VARIATIONS IN PIGMENT COMPOSITIONS

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Production records of the colour compounding operations of SABIC IP at Cobourg, ON, Canada, were analyzed to determine the effects of small changes in pigment concentrations on product colour. The colours had been measured in terms of CIE L*,a*,b* values using a spectrophotometer. These values, for the various trials carried out to achieve the desired / target values, were collected and analyzed to determine the sensitivity of colour to variations in pigment quantities. Statistical methods were used to determine the interactions between the pigments and their effects on colour, which are discussed in this paper.