

DIN 67510-1:2009-11 (E)

Phosphorescent pigments and products - Part 1: Measurement and marking at the producer

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Measurement	5
4.1	Measured objects	5
4.1.1	General	5
4.1.2	Phosphorescent pigments	6
4.1.3	Phosphorescent products	6
4.1.4	Reference sample	7
4.2	Requirements for the excitation apparatus	7
4.3	Measurement and excitation	7
4.3.1	Temperature	7
4.3.2	Illuminance measuring instrument	7
4.3.3	Procedure	7
4.4	Measurement of light decay	7
4.4.1	Luminance	7
4.4.2	Effect of stray light	9
4.4.3	Number of measured values	9
4.5	Determination of the decay time	9
4.6	Determination of the colour of phosphorescence	9
4.7	Measurement record	9
Annex A (informative)	Mathematical method for approximate determination of the decay time	11
A.1	Application	11
A.2	Procedure	11
A.3	Example of linear extrapolation	12
A.4	Example of parabolic extrapolation	13
Annex B (informative)	Determination of the complete and relative saturating excitation	15
B.1	Complete saturating excitation	15
B.2	Relative saturating excitation	15
Bibliography		16