

DIN EN ISO 16474-1:2014-03 (E)

Paints and varnishes - Methods of exposure to laboratory light sources - Part 1: General guidance (ISO 16474-1:2013)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	6
4.1	General	6
4.2	Significance	6
4.3	Use of accelerated tests with laboratory light sources	8
5	Requirements for laboratory exposure devices	8
5.1	Irradiance	8
5.2	Temperature	10
5.3	Humidity and wetting	12
5.4	Other requirements for the exposure device	13
6	Test specimens -- Preparation, replicates, storage and conditioning	13
6.1	Handling of test specimens	13
6.2	Form, shape, preparation	13
6.3	Number of test specimens	14
6.4	Storage and conditioning	14
7	Test conditions and procedure	15
7.1	Set points for exposure conditions	15
7.2	Property measurements on test specimens	15
8	Periods of exposure and evaluation of test results	16
8.1	General	16
8.2	Sampling	16
8.3	Determination of changes in properties after exposure	16
8.4	Use of control materials	16
8.5	Use of results in specifications	16
9	Test report	17
Annex A (informative)	Procedure for measuring the irradiance uniformity in the specimen exposure area	19
Annex B (informative)	Factors that decrease the degree of correlation between artificial accelerated weathering or artificial accelerated irradiation exposures and actual use exposures	22
Annex C (informative)	Solar spectral irradiance standard	25
Bibliography		26