DIN EN ISO 4892-1:2016-10 (E)

Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance (ISO 4892-1:2016)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **7**

4 Principle ... **7**
4.1 General ... 7
4.2 Significance ... 8
4.3 Use of accelerated tests with laboratory light sources ... 9

5 Requirements for laboratory exposure devices ... **10**
5.1 Irradiance ... 10
5.2 Temperature ... 11
5.3 Humidity and wetting ... 13
5.4 Other requirements for the exposure device ... 14

6 Test specimens ... **15**
6.1 Form, shape and preparation ... 15
6.2 Number of test specimens ... 16
6.3 Storage and conditioning ... 16

7 Test conditions and procedure ... **16**
7.1 Set points for exposure conditions ... 16
7.2 Property measurements on test specimens ... 17

8 Periods of exposure and evaluation of test results ... **18**
8.1 General ... 18
8.2 Use of control materials ... 18
8.3 Use of results in specifications ... 18

9 Test report ... **19**

Annex A (normative) **Procedures for measuring the irradiance uniformity in the specimen exposure area** ... **21**

Annex B (informative) **Factors that decrease the degree of correlation between artificial accelerated weathering or artificial accelerated irradiation exposures and actual-use exposures** ... **24**

Annex C (informative) **Solar spectral irradiance standards** ... **27**

Bibliography ... **29**